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Pred. No. is the number of results predicted by chance to have a
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score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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1 (bases 1 to 1520)
Delbridge,M.L., Harry,J.L., Toder,R., O'Neill,R
Chandley,A.C. and Graves,J.A.M.
A human candidate spormatogenesis gene RBM1 is
amplified on the marsupial Y chromosome
Nature Genet. (1996) In press
                                                                                        Direct Submission
Submitted (25-NOV-1996) Genetics and Human Variation,
University, Kingsbury Drive, Bundoora, Victoria 3083,
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                        MEU79565
Macropus eugenii RBM1
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U79565.1 GI:4098579
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Delbridge,M.L. and Graves,J.A.M.
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Mammalia; Metatheria; Diprotodontia; Macropodidae; N
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                           /organism="Macropus eugenii"
/mol_type="mRNA"
/db_xref="taxon:9315"
/chromosome="Y"
    /note="RNA-binding
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Cerda, J., Conrad, M., Markl, J., Brand, M. and Herrmann, H.
Direct Submission
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29; Conserv
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DRFASYIDKVRFLEQONKILLAELEOLRGKGASRVGDLYEDEMEELRRQVDDLTGEKS
KVEVDRDNLGEDIERLKERLQEEMLQREDAENSLRSFRQDVDNASLARLDLERKVESL
KVEVDRDNLGEDIERLKERLQEEMLQREDAENSLRSFRQDVDNASLARLDLERKVESL
QEELAFLKKLHDEELAEMGLQWOEQHLOIDMEVTKPDLTAALKUVRQQYETLASRNLQ
ESEDWYKSKFADLSEAARNNEAIRLAKQEANDYRRQLQALTCDLEALKGTNESLERQ
MRELEDSFSWEASGYQDTIGFLEDDIRMKDEMARHLREYQDLTNVKWALDIEIATYR
MRELEDSFSWEASGYQDTIGFLEDDIRMKDEMARHLREYQDLTNVKWALDIEIATYR
                                                                                                                                                                                                                                                                                                                                                                                                       /note="intermediate filament; similar to Swiss-Prot
Accession Number P48673 and to product encoded by Genbank
Accession Number S76850"
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GPPRGLRHGRGGSGEARGPPRGGHMDDSGYSLNFNMGSSMGPLLVKRGAPPQSGQPSP
KRSAPSGPVYSSRQMGGRGQLSGGRDSYGGPPRRESLSSRRDVHMSPRDDSYSTKESY
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SQKSYSSSRSGIYSSSRDCVGRQERGLPSAMSRGYPAPHDSYSSSSRGARRGDGRGGS
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                                                                                                                                                       KLLEGEESRITSPFPNFSSLSLRESMKETRPLIDNLSKKVVIKTIETRDGHIINESTÇ
                                                                                                                                                                                                                                                                                                 /protein_id="AAC98491.1"
/db_xref="GI:4063849"
/translation="MASRTSTSSYKRMFGGERPAAARSTFSSRQYSSPVRVSSSRTSY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /mol_type="mRNA"
/db_xref="taxon:7955"
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/db_xref="GI:4098580"
                                                                                                                                                                                                                                                                                                                                                                product="vimentin"
                                                                                                                                                                                                                                                                                                                                                                                       codon_start=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            dev_stage="postmitogenesis embryo
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repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases:
Em: RMBI; Sw: SWISSPROT; Tr: TREMBL; Wp:, WORMPEP; Information on the WORMPEP database can be found at http://www.sanger.ac.uk/Projects/C elegans/wormpep RP23-37017 is from the RPCI-23 Mouse BAC Library constructed by the group of Pieter de Jong.
For further details see http://www.chori.org/bacpac/home.htm
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                                                                                                                                                                                                                                                                                                                                               Sequence from the Mouse Genome Sequencing Consortium whole genome shotgun may have been used to confirm this sequence. Sequence dat from the whole genome shotgun alone has only been used where it has a phred quality of at least 30.

IMPORTANT: This sequence is not the entire insert of clone RP23.37017 It may be shorter because we sequence overlapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                       sections only once, except for a short overlap. The true left end of clone RP23-37017 is at 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        corresponding to the overlapping clone, as we submit sequences only a small overlap as described above.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Web site: http://mrcseq.har.mrc.ac.uk
Contact: mouseq@har.mrc.ac.uk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Center code: UK-MRC
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                                                                                                  /mol_type="genomic DNA
/db_xref="taxon:10090"
/chromosome="4"
                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                 clone="RP23-37017"
                                                                                                                                                                                           organism="Mus musculus"
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Sutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                               .65975
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                                                                                                                                                                 _type="genomic DNA"
                                          lib="RPCI-23"
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/note="3.0
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complement(1497. 1969)
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                                                                                                                                                    7489. .7509
/note="1.9 copies 11 mer AAAAGCATTCA 42% conserved"
complement(7534. .7648)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /note="Lx9 repeat: matches 6637.
complement(8624. .10220)
                                                                                                                                                                                                                                                                                           complement (6883.
                                                                                                                                                                                                                                                                                                                                                              /note="match: GSS: Em:AZ067786" 
complement(6249. .6515)
                                                                                                                                                                                                                                                                                                                                                                                            /note="6.0 copies 4 mer CAAA 39% conserved"
complement (5947. .6458)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2300. .2309
/note="2.5 (
                                                                                  note="3.2 copies 4 mer TCTG 26% complement (7714. .8619)
                                                                                                                                                                                                                                                        note="ORRID repeat: matches 1..104 of consensus" 095..7107
                                note="Lx9 repeat: matches 4987. .6587 of consensus"
                                                                                                                                    note="PB1D9 repeat: matches 9. .118 of consensus"
                                                                                                                                                                                                                                                                                                                                            note="ORRID repeat: matches 98.
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octe="6.5"
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note="Lx repeat: matches 6876. .6972 of consensus"
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)te="2.9 c
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Ee="B1_MM
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te="2.1 c
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)te="2.0 (
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6. 7227
:e="2.4 conies"
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te="B1_M
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te="B4A repeat:
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te="2.7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3. .5074
3. .5074 mer CAAA 47% conserved"
                                                                                                                                                                                                                                                                                          e="L1_MM repeat: matches 6272. .6569 of consensus"
lement(6883. .6987)
   e="18.0
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copies 1 mer T 27% conserved"
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                                                                   .7549 of consensus"
                                                                                                                                                                                                                                                                                                                                             .374 of consensus"
                                                                                                    conserved"
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                                                                                                                     1290 AACTCAAGTAAAAAAAAAAAAAAAAAA 1317
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                                                                                       AACTCAAGTAAAAAAAAAAAAAAAAAAA 60119
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                                                                                                                                                                                                                                                                                                                                                                                          /nore="21.5 copies 2 mer AG 86% conserved" complement(19328. .19496)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18896. 18907
/note="2.0 copies 6
complement(19023. .]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note="L1 MM repeat: matches 4895. .6588 of consensus" complement (11906. .12393)
/note="LX9 repeat: matches 6122. .6646 of consensus"
                                                                                                                                                                                                                                           20580. .20589
/note="2.5 co
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               complement (12412
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2669. .12994
                                                                                                                                                                                                                                                                                                        9880. .19891
note="2.0 copies 6 mer TACTTT 24% conserved"
                                                                                                                                                                                                                                                                                                                                                                                                                     9285. .1932.
note="21.5 (
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5.7.1.17350
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|ote="3.6 copies 5 mer CCTCT 27% conserved"
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| Le="4.8 copies 6 mer CCCTCT 35% conserved"
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          Contact: David M. Kingsley
Dept of Developmental Biology/ Howard Hughes Medical Institute
Stanford University School of Medicine
B300 Beckman Center, 279 Campus Drive, Stanford, CA 94305-5329,
Email: kingsley@cmgm.stanford.edu
primer a. ATATGAACTGACAGGAGCCC
Primer B: CTTGACCGACCTGTTGATCC
STS size: 106
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27; Conserv
                                                                                                                                                                                                                                                   Gasterosteus aculeatus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Gasterosteiformes;
                                                                                                                                                                                                                                                                                                                                                                G72232
Stn10 Stickleback cDNA Gasterosteus
55-22/T7, sequence tagged site.
                                                                                                                                                     stickleback species
Nature 414 (6866), 901-905 (2001)
                                                                                                                                                                              Peichel, C.L., Nereng, K.S., Ohgi, K.A., Cole, B.L., Buerkle, C.A., Schluter, D. and Kingsley, D.M. The genetic architecture of divergence between the
                                                                                                                                                                                                                        Gasterosteidae; Gasterosteus.
1 (bases 1 to 640)
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Patent: JP 2001509271-A 2 10
INCYTE PHARMACEUTICALS INC
PN JP 2001509271-A/2
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Arabidopsis thaliana
                                                                                                                         Synonyms: C3green9
                                                                                                                                                                                                                                                                                                         Gasterosteus aculeatus (three spined stickleback)
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12-DEC-1997 JP 1998534358
15-JAN-1997 US 08/784162
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/mol_type="genomic DNA"
/db_xref="taxon:3702"
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        PROTEIN DETECTION
Patent: WO 9713853-A 1 17-APR-1997;
GIST BROCADES BV (NL)
Other publication AU 7294396 970430.
Location/Qualifiers
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27; Conserv
                                                                                 Van,D.B.,
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/mol type="mRNA"
/strain="Salinas River, C
/db xref="taxon:69293"
/clone="55-22/T7"
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Aspergillus niger
Aspergillus niger
Eukaryota, Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.
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/lab_host="XL1-Blue MRF'"
/note="Vector: ZAP Express; V
primed cDNA unidirectionally
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Visser, J. and Van, O.A.
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Matches 27, Conserv
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Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
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Patent: WO 971362-A 1 17-APR-1997;
GIST BROCADES BV (NL)
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Sequence 1
AR130937
AR130937.1
Drosophila melanogaster (fruit fly)
Drosophila melanogaster
Drosophila melanogaster
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygo
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophildae; Drosophila.
1 (bases 1 to 1045)
                                                                                                                                                                                                                                                                                                                                         1 (bases 1 to 1017)
Van Den Broeck, H.C., De Graaff, L.H.,
Ooijen, A.J.J.
                                                                                               AY075210
Drosophila melanogaster AT14709
                                                                                                                                                                                                                  27;
                                                                                                                                                                                                                                                                                                Patent: US 6306635-A 1 23-OCT-2001;
Location/Qualifiers
1. .1017
                                                                   AY075210.1 FLI_CDNA.
                                                                                                                                                                                                                                                                                                                                                                                      Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1
AR174096
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Fungal cellulases
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Van Den Broeck, H.C.,
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ilarity 100.0%;
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267 c 265 g
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267 c 265 g
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from patent US 6190890.
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Pred. No.
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Pred. No.
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                                                                                                    mRNA linear
full length cDNA.
                                                                                                                                                                                                                             DB 6;
0.025;
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0.025;
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                                                                             1 (bases 1 to 1061)
Reed, S.G., Lodes, M.J., Mohamath, R. and
Compounds for therapy and diagnosis of
                                                                                                                                                                                                                                                                                                         Sequence 149 from patent AR225497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            priming, priming from contaminating genomic DNA, retained introns due to reverse transcription of unspliced precursor RNAs, and reverse transcriptase errors that result in single base changes. For further information about this sequence, including its location and relationship to other sequences, please visit our Web site (http://fruitfly.berkeley.edu) or send email to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This clone was sequenced as part of a high-throughput process to sequence clones from Drosophila Gene Collection I (Rubin et al., Science 2000). The sequence has been subjected to integrity checks for sequence accuracy, presence of a polyA tail and contiguity within 100 kb in the genome. Thus we believe the sequence to reflect accurately this particular cDNA clone. However, there are artifacts associated with the generation of cDNA clones that may have not been detected in our initial analyses such as internal
                                                   their use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (18-JAN-2002) Berkeley Drosophila Genome Project, Lawrence Berkeley National Laboratory, One Cyclotron Road, Berkeley, CA 94720, USA Sequence submitted by:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Champe, M., Chavez, C., Dorsett, V.; Dresnok, D., Farfan, D., Frise, E., George, R., Gonzalez, M., Guarin, H., Kronmiller, B., Li, P., Liao, G., Miranda, A., Mungall, C.J., Nunco, J., Pacleb, J., Paragas, V., Park, S., Patel, S., Phouanenavong, S., Wan, K., Yu, C., Lewis, S.E., Rubin, G.M.
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                                                                                                                                                                Unclassified.
                                                                                                                                                                                               Unknown.
                                                                                                                                                                                                                         Unknown.
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   Location/Qualifiers
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Lawrence Berkeley National Laboratory
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                            US 6444425-A 149 03-SEP-2002;
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/product="AT14709p"
/protein_id="AA168077.1"
/protein_id="AA168077.1"
/db_xref="GI:18449972"
/translation="MRARKKQOKQPQPQLLRRPRRRRQEQQDQPKRQEQQPVRPSIR
/translation="MRARKKQOKQPQPQLLRRPRRRRQEQQDQPKRRQEQPVRPSIR
/EXAMPLE OF COMMON CONTROL OF COMMON CONTROL OF COMMON CONTROL OF CONTROL OF COMMON CONTROL OF 
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/mol_type="mRNA"
/db_xref="taxon:7227"
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100.0%; Pred. No.
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27; Conserv
                                                                                                         GLYCERIN-3-PHOSPHATE-DEHYDROGENASE PAtent: WO 9506733-A 4 09-MAR-1995, MAX PLANCK GESELLSCHAFT (DE) Other publication CA 2170611 950309 Other publication AU 7693894 950322
                                                                                                                                                                                                                                                                                                      Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; Myrtales; Lythraceae; Cuphea.
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Toepfer,R., Hausmann,L. and Schell,J
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Compositions and methods for the therapy and diagnosis of lung
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
294 c 350 g 19
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294 c 350 g
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organism="Cuphea lanceolata"
| mol_type="genomic DNA"
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PLI293506
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Boursin, a sea urchin bimC motor protein, plays a role in anaphase
                                                     Eukaryota; Metazoa; Echino
Echinoidea; Euechinoidea;
                                                                               AJ293506.1 GI:12055368
boursin; boursin gene; kinesin-like.
Paracentrotus lividus (common urchin)
Paracentrotus lividus
                                                                                                                                                                    PLI293506 3841 bp mRNA ]
Paracentrotus lividus mRNA for kinesin-like
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AJ293506
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                                          Paracentrotus.
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a 291 c
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/clone_lib="C-DNA-BANK_ZAP"
34. .1152
                                                                                                                                                                                                                                                                                                                                                                                 /organism="unknown"
291 c 356 g
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/db_xref="GI:2298897"
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                                                      Echinodermata; Eleutherozoa; Echinozoa;
bidea; Echinacea; Echinoida; Echinidae;
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Direct Submission
Submitted (28-MAY-2003) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 ISA, UK. E-mail enquiries:
zfish-help@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk On May 7, 2003 this sequence version replaced gi:29500978.
                                                                                                                                                                                                                                          BX321868.3 GI:30424196
HTG; HTGS PHASE1; HTGS DRAFT; HTGS_FULLTOP
Danio rerio (zebrafish)
                                                                                                                                                                                                                                                                                                                      Danio rerio clone RP71-41121, ***
unordered pieces.
BX321869
                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Exactinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; Danio.

1 (bases 1 to 135734)
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Villefranche s/mer, FRANCE
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Biologie du developement, Observatoire Oceanologique, 06230
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AGNINGSLLTLGRVITALVEHAPHVPYRESKLTRILQDSLGGRTKTSIIATVSPASIN
VEETLSTLDYAHRAKNITNRPEINGKLTKKALLKSYTEEIEIRLRKDLFATREKNGIF
SEHYRRMETSIASQKAQIKEMENIIGLTTQMGKVTELFEYTQKELEDRTEELEITT
KNLVETTDTLHVTEKDLRVTTQDRDEGRHLVSEHVKTETQLMSEATOLVSTADSSVSD
VGGLHSKLDRKKNVEAHNKSAQEVFAESFRSHTSDIKSALSQIREEQOGKCASMQQOF
EFMISKRTKEAGDLRTALSDMVTSVKGQTGAIMEESQRKREEMKWSDDACEEHSKFK
EDVIDRITTVEKFARFLTTMKTLEEKLSVLTESLNEEGNKDSSTOSETVOBCIDKQ
LEQVKVMTTTVEKFARFLTTMKTLEEKLSVLTESLNEEGNKDSSGRLHSSADHHH
EKTVGQVEDIRKVNASLEESSTSHTSNTHILERGTHYDEVCEKVKGHDEVTKTEG
ASETSKLQDGFREASTDTATVKADLGSGETALGESCFKVKGHDEVTKJESLDHHTKGE
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NGLKRVETFLTQDLKEDVPTGTTPQRKQYSYPRDLTSTEPHDIILNRFRQECDLNQAA
DMPLPDDSVASECPADLSLQSGKTGOSESFLSDTSTVDANEISSSLSRSQSQQSLSSS
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IVGTEVAEKASSKTFSEDKVFGFKSTQLEVYKSVVAB ILDEVLMGYNCTVFAYGQTGT
GKTFTMEGDRTPDPDLSWEQDPLAGIIPRAWHQIFEKNVGTDVEFSVRVSYLELYNEE
LFDLLSGQEDTQRMRIFEDSARKGSVVIQGLEEVTVHNKNEVYAILEKGASKRQTAAT
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/db_xref="GI:12055369"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                function="role in mitosis and cytokinesis"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2.0%;
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Pred. No.
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3.1"
                                                                                                                                                                                                        Craniata; Vertebrata; Euteleostomi;
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0.022;
                                                                                                                                                                                                                                                                                                                                                           DNA linear HTG (
SEQUENCING IN PROGRESS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 3841;
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Center code: SC Www.sanger.ac.uk

Center: Wellcome Trust Sanger Institute

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REFERENCE
AUTHORS
                                                                                                     SOURCE
ORGANISM
                                                                                                                                                                                                                                                                            RESULT 19
BX088528/c
                                                                                                                                                KEYWORDS
                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BASE COUNT
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                        1292 CTCAAGTAAAAAAAAAAAAAAAAAAAAA 1318
                                                                                                                                                                                                                                                                                                                                                                                                                                                    27;
                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cyprinidae; Danio.

1 (bases 1 to 169422)
                                                                                                     BX088528.4 GI:30349910
HTG; HTGS PHASE1; HTGS ACTIVEFIN; HTGS DRAFT; HTGS FULLTOP Danio rerio (zebrafish)
Danio rerio
                                                                                                                                                                                                                                    BX088528 169422 bp DNA linear HTG 03-MAY-:
Danio rerio clone CH211-226D23, *** SEQUENCING IN PROGRESS ***,
                                                                                                                                                                                              BX088528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Insert size: 135634; sum-of-contigs
Insert size: 143080; 4.1% error; agarose-fp
Quality coverage: 7.36x in Q20 bases; sum-of-contigs Quality
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chemistry: Dye-terminator, 100% of reads
Consensus quality: 135414 bases at least Q40
Consensus quality: 135566 bases at least Q30
Consensus quality: 135589 bases at least Q20
  Pelan,S.
                                                                                                                                                                                                              unordered pieces.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       coverage: 6.97x in Q20 bases; agarose-fp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Center project name: bZ41121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Contact: zfish-help@sanger.ac.uk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Assembly program: XGAP4; version 4.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                  CTCAAGTAAAAAAAAAAAAAAAAAAAA 91091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NOTE: This is a 'working draft' sequence. It currently consists of 2 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            46602 a
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106643. .135734
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106642: gap of 100 bp
3 135734: contig of 29092 bp in length.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note="assembly_fragment:00153
fragment_chain:1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note="assembly_fragment:00302
fragment_chain:1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /mol_type="genomic DN
/db_xref="taxon:7955"
/clone="RP71-41121"
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23697 c 23799 g
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    Summary Statistics

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; Pred. No. 0.017,
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                                                                                                                                                          Similarity 27; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cambridgeshire, CB10 1SA, UK. E-mail enquiries: zfish-help@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk On May 3, 2003 this sequence version replaced gi:28971433.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (02-MAY-2003) Wellcome Trust Sanger Institute, Hinxton,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Direct Submission
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4535
45364
45364
45464
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101617
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fragment_chain:1"
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fragment_chain:1"
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/mol_type="genomic DNA"
/db_xref="taxon:7955"
/clone="CH211-226D23"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note="assembly_fragment:00410
fragment_chain:1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'note="assembly_fragment:00299"
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4538: gap of 100 bp
45363: contig of 40829 bp in length
45463: gap of 100 bp
95734: contig of 50271 bp in length
9583: gap of 100 bp
101616: contig of 5782 bp in length
101710: gap of 100 bp
169422: contig of 67706 bp in length.
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Pred. No. 0.017;
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                                                                                                                                                                                                                                                                                                      Allen, C., Allen, H., Albbrooks, S., Amin, A., Anguiano, D., Allen, C., Allen, H., Albbrooks, S., Amin, A., Anguiano, D., Allen, C., Allen, H., Albbrooks, S., Amin, A., Anguiano, D., Anyvalbechi, V., Aoyegi, A., Ayodej, M., Baca, E., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F., Biswalo, K., Bair, J., Blankenburg, K., Blyth, P., Brown, M., Bernahmed, F., Bryant, N., Buhay, C., Burch, P., Burrell, K., Caderon, E., Cardenas, V., Carter, K., Cavazos, I., Cesart, H., Chen, Z., Chen, Z., Chen, Z., Chen, Z., Chevalend, C., Coyle, M., Cree, A., D. Souza, L., Davila, M. L., Davis, C., Davy-Carroll, L., De Ands, C., Dedrich, D., Dalgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Drager, H., Dinya, K., Drager, H., Dinya, K., Drager, H., Dinya, K., Drager, H., Dinya, K., Drager, M., Escotto, M., Eugene, C., Evans, C.A., Falls, T., Fan, G., Perser, C.M., Gabisi, A., Ganta, R., Garcia, A., Carrer, M., Gebregeorgis, B., Gesr, K., Gill, R., Garcia, A., Garrer, T., Garza, M., Gebregeorgis, B., Gesr, K., Gill, R., Garcia, A., Garrer, T., Garza, M., Gunzra, M., Harvey, Y., Haviak, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, R., Haddun, S. L., Hodgeon, A., Hogues, M., Harvey, Y., Hawas, A., Henderson, N., Hernandez, J., Hernandez, R., Haddun, S. L., Hodgeon, A., Hogues, M., Harvey, Y., Hawas, A., Henderson, N., Hernandez, J., Hernandez, R., Haddun, S. L., Hodgeon, A., Hogues, M., Harvey, Y., Hawas, A., Haddun, S. L., Hodgeon, A., Hogues, M., Harvey, Y., Hawas, M., Haddun, S. L., Hodgeon, A., Hogues, M., Harvey, Y., Hawas, A., Henderson, N., Horter, M., Jakeson, A., Hollins, B., Howellas, S., Hulyk, S., Hulw, J., Jühnson, R., Jühnson,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AC136114
AC136114.2 GI:25188357
ATG; HTGS_PHASE1; HTGS_DRAFT; HTGS_ENRICHED
RATTUB norvegicus (Norway rat)
                                                                                    Submitted (29-OCT-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Mētazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rattus norvegicus clone CH230-482C23,
                                 3 (bases 1 to 179844)
Rat Genome Sequencing
                                                                                                                                                                           Direct Submission
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On Nov 23, 2002 this sequence version replaced gi:24417985.
On Nov 23, 2002 this sequence version replaced gi:24417985.
The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence reads. Both end sequences and whole genome
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Center clone name: CH230-482C23
Center clone name: CH230-482C23
Center clone name: CH230-482C23
Assembly program: Phrap; version 0.990329
Consensus quality: 169377 bases at least Q40
Consensus quality: 170723 bases at least Q30
Consensus quality: 171556 bases at least Q20
Estimated insert size: 175244; sum-of-contigs estimation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NOTE: Estimated insert size may differ from sequence length (see http://www.hgsc.bcm.tmc.edu/docs/Genbank draft_data.) NOTE: This is a 'working draft' sequence. It currently consists of 2 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence.
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176181. .178114
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144786. .146133
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                                                                                                                                        Cardenas, V., Carter, K., Chen, G., Coyle, M., Chen, E., Chen, C., Chen, C.,
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Rattus norvegicus clone CH230-61017, *** SEQUENCING IN PROGRESS
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On May 10, 2003 this sequence version replaced gi:23096551.
The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome spots and sequence only contigs will be indicated in the feature
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Rat Genome Sequencing Consortium.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   as soon as it is available and the accession number will be preserved.
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Consensus quality: 208005 bases at least Q40

Consensus quality: 210612 bases at least Q30

Consensus quality: 210612 bases at least Q30

Consensus quality: 210429 bases at least Q20

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Pred. No. 0.016;
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SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 22
BX294188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                 FEATURES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
                    misc_feature
                                                                                                                              misc_feature
                                                                                                                                                                                                                                                                                                                               Bource
                                                               misc_feature
                                                                                                                                                                                             misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 144151 АСТСААСТАЛАЛАЛАЛАЛАЛАЛАЛАЛА 144177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Assembly program: XGAP4; version 4.5
Chemistry: Dye-terminator; 100% of reads
Consensus quality: 262031 bases at least Q40
Consensus quality: 262256 bases at least Q30
Consensus quality: 262355 bases at least Q20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Insert size: 262903; sum-of-contigs
Insert size: 252992; 4.3% error; agarose-fp
Quality coverage: 7.55x in Q20 bases; sum-of-contigs Quality
coverage: 8.22x in Q20 bases; agarose-fp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (28-MAY-2003) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: 2118h-help@anger.ac.uk Clone requests: Clonerequest@sanger.ac.uk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; Danio.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Danio rerio (zebrafish)
Danio rerio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BX294188.4 GI:30424245
HTG; HTGS_PHASE1; HTGS_I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BX294188 263203 bp Danio rerio clone DKEY-255G14, ***
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Center project name: zK255G14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Center code: SC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Center: Wellcome Trust Sanger Institute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             On May 7, 2003 this sequence version replaced gi:29500486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mclaren,S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: zfish-help@sanger.ac.uk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Web site: http://www.sanger.ac.uk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        unordered pieces
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NOTE: This is a 'working draft' sequence. It currently consists of 4 contigs. The true order of the pieces is not known and their order in this sequence record is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 as soon as in
                                                                                                                                                                                                                                                                                                                                                                                                                                    131808
131908
136827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 soon as it is available and the accession number will
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ----- Summary Statistics
                                                                 /note="assembly_fragment:01388
fragment_chain:1"
136927. .189749
                                                                                                                                  fragment_chain:1
131908. .136826
/note="assembly_fragment:02002"
                                      /note="assembly_fragment:01629.0"
                                                                                                                                                    /note="assembly_fragment:00754
fragment_chain:1"
                                                                                                                                                                                                                                       /mol_type="genomic DNA"
/db_xref="taxon:7955"
/clone="DKEY-255G14"
                                                                                                                                                                                                                                                                                                      'organism="Danio rerio"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 --- Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -- Genome
                                                                                                                                                                                                                                                                                                                                                                 136926: gap of 100 bp
189749: contig of 52823 bp in length
189849: gap of 100 bp
263203: contig of 73354 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                                    131807: contig of 131807 bp in length 131907: gap of 100 bp 136826: contig of 4919 bp in length
                                                                                                                                                                                                                     lib="DanioKey"
                                                                                                                                                                                                                                                                                                                                                 Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DRAFT; HTGS_FULLTOP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Information
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
VERSION
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AC104404.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pocus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1291 ACTCAAGTAAAAAAAAAAAAAAAAAAAA 1317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AC104404 1 1 288526 bp DNA linear HTG 13-M Rattus norvegicus clone CH230-77L20, WORKING DRAFT SEQUENCE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rattus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACTCAAGTAAAAAAAAAAAAAAAAAA 119499
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2.0%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches
  Wu,J., Yakub,S., Yen,J., Yoon,L., Yoon,V.,
,J., Zhou,X., Zhao,S., Dunn,D., von
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0.016;
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86165 a
                                    45855 c
                                    45403
                                  ω
                                    85476 t
0
             Length 263203;
                                    304 others
0; Gaps
0
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HTG 13-MAY-2003

HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP Rattus norvegicus (Norway rat) Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Euteleostomi;

MILOSAVIJEVIC, A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwaokelemeh, O., Okwuonu, G., Olarnpunasgoon, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkoch, C., Plopper, F., Poindexter, A., Popovic, D., Primus, E., Pu, L.-L., Plopper, M., Quiroz, J., Rachlin, E., Reeves, K., Regter, M. A., Reigh, R., Puazo, M., Quiroz, J., Rachlin, E., Reeves, K., Regter, M. A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rives, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S.J., Sanders, W., Savery, G., Scherer, S., Scott, G., Shatsman, S., Shen, H., Shatry, J., Shvartebeyn, A., Sisson, I., Sitter, C.D., Smajs, D., Snedd, A., Sodergren, E., Song, X.-Z., Sorelle, R., Sosa, J., Steimle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K., Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Warren, J., Warren, R., Weil, X., White, F., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., F., Shan, T., Shan, T., Walker, R., Wang, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., F., Shan, T., Shan, T., Walker, R., Wang, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yoon, J., Yakub, S., Yen, J., Yoon, J., Yoon, J., Yoon, J., Yoon, J., Yakub, S., Yen, J., Yoon, J., Yoon, J., Yakub, S., Yen, J., Yoon, J., Yoon, J., Yakub, S., Yen, J., Yoon, J., Yakub, S., Yen, J., Yoon, J., Yoon, J., Yakub, S., Yen, J., Yoon, J., Yoon, J., Yakub, S., Yen, J Baldwin, D., Bandaransike, D., Barber, M., Barnstead, M., Benahmed, F., Biswalo, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavazos, I., Ceasar, H., Center, A., Chu, J., Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, C., Chen, Z., Chu, J., Clacko, J., Chavez, D., Chen, G., Chen, R., Chen, C., Chen, Z., Chu, J., Checko, J., Chavez, D., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D., Devland, M. L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D., Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duvah, B., Eaves, K., Began, A., Escotto, M., Eugene, C., Evans, C.A., Falls, T., Fan, G., Fermandez, S., Finley, M., Flaggy, N., Forbes, L., Foster, M., Foster, P., Ferser, C.M., Gabiei, A., Ganta, R., Garcia, A., Garner, T., Garza, M., Gebregeorgis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W., Gunaratne, P., Haaland, W., Hamil, C., Hamilton, C., Hamilton, K., Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, J., Hoollins, B., Howells, S., Hollyk, S., Lu, Hodgson, A., Hogues, M., Hollins, B., Howells, S., Hollyk, S., Kune, J., Idebird, D., Jackson, A., Jackson, L., Jacqb, L., Jang, H., Johnson, B., Johnson, R., Jolivet, A., Kowais, C., Kraft, C.L., Lebow, H., Levan, J., Lewis, L., Liu, J., Liu, Y., London, P., Longacre, S., Lopez, J., Liu, J., Liu, Y., Loulseged, H., Lozado, R. J., Lu, X., Ma, J., Lu, X., Manloy, K., Martin, R., Martinez, E., Milos, J., Mortis, S., Munidasa, M., Montenayor, J., Moore, S., Mortis, K., Martin, R., Martinez, E., Mair, L., Mortis, S., Munidasa, M., Mortenayor, J., Moore, S., Mortis, K., Martin, R., Martin, R., Martinez, E., Milos, J., Mortis, K., Martin, R., Martin, R. Muzny, D. Marie., Metzker, M. Lee., Abramzon, S., Adams, C., Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anguiano, D. Anyalebechi, V., Aoyagi, A., Aydeji, M., Baca, E., Baden, Anyalebechi, V., Aoyagi, A., Aydeji, M.,

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TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   On May 13, 2003 this sequence version replaced gi:23268721. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence reads. Both end sequences and whole genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      shotgun sequence only contigs will be indicated in the feature table.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (13-MAY-2003) Human Genome Sequencing of Molecular and Human Genetics, Baylor College Baylor Plaza, Houston, TX 77030, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (09-DEC-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA 3 (bases 1 to 288526)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Niederhausern, A., Weiss, R., Weinstock, G. and Gibbs, R.A. Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Worley, K.C.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Direct Submission
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                                                                                                                                                                                                                                                                                                                                     NOTE: This sequence may represent more than one clone. NOTE: This is a 'working draft' sequence. It currently consists of 9 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NOTE: Estimated insert size may differ from sequence length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Center project name: GLBX

(enter clone name: CH230-77L20

(enter clone name: CH230-77L20

(enter clone name: CH230-77L20

(enter clone name: CH230-77L20

Assembly program: Atlas 3.0;

Consensus quality: 265077 bases at least Q40

Consensus quality: 267765 bases at least Q20

Consensus quality: 267757 bases at least Q20

Estimated insert size: 280425; sum-of-contigs estimation

Quality coverage: 7x in Q20 bases; sum-of-contigs estimation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (bases 1 to 288526)
                                                                            276297
277778
277878
                                                                                                                                        275023
276197
                                                                                                                                                                                272587
272687
273802
273902
274923
                                                            281015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Web site: http://www.hgsc.bcm.tmc.edu/Contact: hgsc-help@bcm.tmc.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Center: Baylor College of Medicine Center code: BCM
                                                                                                                                                                                                                                                                                                      3952
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                                                                                                                                                                                                                                                                                 272586:
                                                                                                                                                               276196:
                                                                                                                                                                                                                                                                                                                         3951:
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                                                                          gap of
contig
gap of
contig
                                                                                                                                                                                                   gap of contig
                                                                                                                                                                                                                                          gap of contig
                                   gap of contig
                                                                                                                                                           gap of contig
                                                                                                                                                                                                                                                                             contig of 3951 bp in length gap of unknown length contig of 268535 bp in length
                  f unknown
g of 1481
f unknown
g of 3137
f unknown
g of 3124
f unknown
                                                                                                                                                           t unknown
of 1021
unknown
of 1174
                                                                                                                                                                                                                                          f unknown
g of 1115
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                                                                                                                                                                            length
bp in l
length
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of Medicine,
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Best Local
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AR225416
                                                                                                                                                                                                                                                                                                                                                                                          l Similarity
26; Conserv
                                                        Reed, S.G., Lodes, M.J., Mohamath, R., Secrist, H., Indirias, C.Y., Henderson, R.A., Fling, S.P., Algat Mannion, J. and Kalos, M.D. Compositions and methods for the therapy and dia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 (bases 1 to 317)
Reed,S.G., Lodes,M.J., Mohamath,R. and Secrist,H.
Compounds for therapy and diagnosis of lung cance
            Patent: WO 0172295-A 17 04-OCT-2001; CORIXA CORPORATION (US)
                                                                                                                                                               Homo sapiens
                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                            Homo sapiens (human)
                                                                                                                                                                                                             AX321486.1 GI:17905529
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55 c 78 g
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54676 c 54095 g 77047 t
Location/Qualifiers
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4052. .7376
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/mol_type="genomic DNA"
/db_xref="taxon:10116"
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from patent US 6444425.
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Pred. No.
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                                                                                       Algate, P.A., Elliot, M.,
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                                                         diagnosis of lung
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TITLE
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G72249/c
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Best Local Similarity 100
Matches 26; Conservative
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Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;

Asteridae; lamida; Solanales; Solanaceae; Nicotiana.

1 (bases 1 to 425)

Wang, J., Sheehan, M., Brookman, H. and Timko, M.P.

Characterization of cDNAs differentially expressed in roots of cobacco (Nicotiana tabacum cv Burley 21) during the early stages of alkaloid biosynthesis

Plant Sci. 158 (1-2), 19-32 (2000)
Gasterosteus aculeatus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Gasterosteiformes;
                                                                                                        G72249 520 bp mRNA 11r
Stn53 Stickleback cDNA Gasterosteus aculeatus
68-26/T7, sequence tagged site.
G72249 G72249.1 GI:17977109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Direct Submission
Submitted (27-MAY-1999) Biology, University of Virginia, 044 Gilmer Submitted (27-MAY-1999) Biology, University of Virginia, 044 Gilmer Hall, Charlottesville, Virginia 22903, USA Location/Qualifiers
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Nicotian tabacum clone PR12
AP154637
AF154637.1 GI:8547137
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Sheehan, M.J., Wang, J. and Timko, M.P.
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                                                                       Gasterosteus aculeatus (three spined stickleback)
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/db_xref="taxon:9606"
55 c 78 g
                                                                                                                                                                                                                                                                                                                                                                                                                     /tissue_type="root"
/note="similar to inorganic phosphate transporter"
75 c 51 g 151 t
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/mol_type="genomic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /organism="Nicotiana tabacum"
/mol_type="mRNA"
/cultivar="Burley 21"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /clone="PR12"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          db_xref="taxon:4097"
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100.0%; Pr
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100.0%; Pred. No.
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26
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Peichel, C.L., Noreng, K.S., Ohgi, K.A., Cole, B.L., Colosimo, P.F., Buerkle, C.A., Schluter, D. and Kingsley, D.M.
The genetic architecture of divergence between threespine stickleback species
Nature 414 (6866), 901-905 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Dept of Developmental Biology/ Howard Hughes Medical Institute Stanford University School of Medicine B300 Beckman Center, 279 Campus Drive, Stanford, CA 94305-5329. Email: kingeley@cmgm.stanford.edu
Primer A: CTGGGGAGATGATTGACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Synonyms: B7yellow11
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Protocol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: David M. Kingsley
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11780061
                                                                                                                                                                                                                                                                                                                                                                        Buffer:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STS size: 134
PCR Profile:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Primer B: CTGCACAGATTGAAACGGG
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                                                         Similarity
                                                                                                        151
                                              Conservative
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KCl:
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Total volume:
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                                                                                                                                                    /note="Vector: ZAP Express; V-type: Phage; Oligo(dT) primed cDNA unidirectionally cloned into the EcoRI/XhoI sites of ZAP Express."
                                                                                                     complement (439.
127 c 101
                                                                                                                                                                                   /tissue type="Head and internal organs"
/clone_Tib="Stickleback cDNA"
/dev_stage="Adult"
/lab_host="XLL-Blue_MRF/"
                                                                                                                                                                                                                                                                                    organism="Gasterosteus"
                                                                                                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                                                                                                                                                                   /strain="Salinas River,
/db_xref="taxon:69293"
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RESULT 28

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RESULT 29
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G72252 599 bp mRNA linear STS 21-D Stn56 Stickleback cDNA Gasterosteus aculeatus STS cDNA clone
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Gallus gallus
Gallus gallus
Gallus gallus
Gallus gallus
Gukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
Phasianinae; Gallus.
1 (bases 1 to 588)
Crooijmans,R.P., Dijkhof,R.J., van der Poel,J.J. and Groenen,M.A.
New microsatellite markers in chicken optimized for automated
fluorescent genotyping
Anim. Genet. 28 (6), 427-437 (1997)
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WS7 Chicken RPMACrooijmans
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Department of Animal Breeding
Wageningen Agricultural University
Box 338, 6700 AH Wageningen, The Netherlands
Email: richard.crooijmans@alg.vf.wau.nl
Primer A: AGTGTTCTCCAATTTGTTCT
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Annealing:
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/mol_type="genomic DNA"
/mol_type="genomic DNA"
/db xref="taxon:9031"
/clone_lib="Chicken RFWACrooijmans"
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Gasterosteiformes;
Gasterosteidae; Gasterosteus.

1 (bases 1 to 599)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Dept of Developmental Biology/ Howard Hughes Medical Institute Stanford University School of Medicine B300 Beckman Center, 279 Campus Drive, Stanford, CA 94305-5329, Email: kingsleyeemgm.stanford.edu Primer A: ATGCTTGTGGTGTCAGCTCC Primer B: TCATCAAGTGGTGGCTAGGG
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The genetic architecture of divergence between threespine stickleback species

Nature 414 (6866), 901-905 (2001)
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G72252.1 GI:17977112
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Contact: David M. Kingsley
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                                                                             /dev stage="Adult"
/lab_host="XL1-Blue MRF',"
/note="Vector: ZAP Express; V-type: Phage; Oligo(dT)
primed cDNA unidirectionally cloned into the EcoRI/KhoI
                                                                     sites of ZAP
                                                                                                                                                                              /organism="Gasterosteus aculeatus"
/mol_type="mRNA"
/strain="Salinas River, California
/db_xref="taxon:69293"
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Location/Qualifiers
                                                                                                                                       tissue_type="Head and internal organs"
clone_Tib="Stickleback cDNA"
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Query Match

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AUTHORS
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Stn99 Stickleback cDNA Gasterosteus
71-16/T7, sequence tagged site.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synonyms: C4yellow11
Contact: David M. Kingsley
Dept of Developmental Biology/ Howard Hughes Medical Institute
Stanford University School of Medicine
B300 Beckman Center, 279 Campus Drive, Stanford, CA 94305-5329,
Email: kingsleyemgm.stanford.edu
Primer A: CTAACCTCAAACCACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (bases 1 to 600)
Peichel, C.L., Nereng, K.S., Ohgi, K.A., Cole, B.L., Colosimo, P.F.,
Peichel, C.L., Nereng, K.S., Ohgi, K.A., Cole, B.L., Colosimo, P.F.,
Buerkle, C.A., Schluter, D. and Kingsley, D.M.
The genetic architecture of divergence between threespine
stickleback species
Nature 414 (6866), 901-905 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Gasterosteiformes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gasterosteus aculeatus
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G72270.1 GI:17977130
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                                                                                                                                                                                                   Taq polymerase:
Total volume:
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/tissue type="Head and internal organs"
/clone_Tib="Stickleback cDNA"
                                     /organism="Gasterosteus aculeatus"
/mal_type="mRNA"
/strain="Salinas River, California
/db_xref="taxon:69293"
                         /clone="71-16/T7"
                                                                                                      ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCCTCTGTTAGGCACCAACC
                                                                                                                                                                                                                                                                                     cycler:
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BC052930
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TITLE
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primer_bind
E_COUNT__1
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Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,

Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,

Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F.,

Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,

Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,

Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,

Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,

Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J.,

McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,

Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,

Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,

Fahey, J., Helton, E., Ketteman, M., Madan, A., Kodrigues, S.,

Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,

Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,

Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,

Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E.,

Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.

Generation and minitial analysis of more than 15,000 full-length

human and monse cDNA sequences
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                                                                        NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Marcello Bento Soares, Ph.D.
CDNA Library Preparation: M. Bento Soares, University
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LL
DNA Sequencing by: Institute for Systems Biology
http://www.systemsbiology.org
                                                                                                                                                                                                                                                                                                                   Submitted (30-MAY-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus (bases 1 to 657)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BC052930 657 bp mRNA line Mus musculus cDNA clone IMAGE:1430210, partial BC052930
contact: amadan@systemsbiology.org
Anup Madan, Jessica Fahey, Erin Helton, Mark Ketteman, Anuradha
Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus (house mouse)
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                                                                                                                                                                                                                                                                                                                                                                                                                          Strausberg, R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human and mouse cDNA sequences
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//ab_host="XL1-Blue MRF'"
//ab_host="Vector: ZAP Express; V-type: Phage; Oligo(dT)
primed cDNA unidirectionally cloned into the EcoRI/XhoI
sites of ZAP Express."
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RESULT 32
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei. Acanthomorpha; Acanthopterygii; Percomorpha; Gasterosteidae; Gasterosteidae; Gasterosteidae; Gasterosteidae; Gasterosteidae; Gasterosteins:

1 (bases 1 to 660)

Peichel, C.L., Nereng, K.S., Ohgi, K.A., Cole, B.L., Colosimo, P.F., Buerkle, C.A., Schluter, D. and Kingsley, D.M.

The genetic architecture of divergence between threespine stickleback species

Nature 414 (6866), 901-905 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Clone distribution: MGC clone distribution information can be for through the I.M.A.G.E. Consortium/LLML at: http://image.llnl.gov Series: IRAK Plate: 113 Row: e Column: 19
This clone was selected for full length sequencing because it passed the following selection criteria: Similarity but not identity to protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26;
                                                                                                                                                                                                                                                             B300 Beckman Center, 279 Campus Drive, Email: kingsley@cmgm.stanford.edu Primer A: TATTGTCCCAGCTGTGCTCG
                                                                                                                                                                                                                                                                                                               Contact: David M. Kingsley
Dept of Developmental Biology/ Howard Hughes Medical Institute
Stanford University School of Medicine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gasterosteus aculeatus
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Primer B: AATGGTCTGTGGTGATGAGC
                                                                                                                                                                                                                                                                                                                                                                    Synonyms: Clgreen9
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                                                                                                                                                                                                          size: 120
Profile:
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                                                                                                                                     PCR cycles:
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              Polymerization:
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/clone_lib="Soares_mammary_gland_Nbwwg"
/lab_host="DH10B"
/note="Vector: pT7T3D-Pac"
173 c 190 g 135 t
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/clone="IMAGE:1430210"
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/mol_type="mRNA"
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AJ539380
AJ539380.1 GI:29373949
UDP-sugar diphosphatase; UGPP gene.
Sus scrofa (pig)
                                                                                         Submitted (30-JAN-2003) Pozueta-Romero J., Universidad Publica de
Navarra / CSIC, Instituto de Agrobiotecnologia y Recurso, Carretera
de Mutilva s/n, 31192 Mutilva Baja (Navarra), SPAIN
Location/Qualifiers
                                                                                                                                                                                                                               Toshihiro,Y., Baroja-Fernandez,E., Yamamoto,R., Munoz,F.J., Akazawa,T., Hong,K.S. and Pozueta-Romero,J. Cloning, expression and characterization of a mammalian Nudix hydrolase-like enzyme that cleaves the pyrophosphate bond of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Buffer:
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                                                                                                                                                                                                                  UDP-glucose
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Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                                                                                                                                                                                                          Sus scrofa
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         complement (142..161)
144 c 100 g
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/lab_host="XL1-Blue MRF'"
/lab_host="XL1-Blue MRF'"
/note="Vector: ZAP Express; V-type: Phage; Oligo(dT)
primed CDNA unidirectionally cloned into the EcoRI/XhoI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sites of ZAP Express
                            /organism="Sus scrofa"
/mol_type="mRNA"
/db_xref="taxon:9823"
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/mol_type="mRNA"
/strain="Salinas River,
/db_xref="taxon:69293"
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/gene="UGPP"
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AR254343
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A70165
      1 (bases 1 to 815)
Rafalski,J.A. and Famodu,O.O.
Sterol metabolism enzymes
Patent: US 6479733-A 21 12-NOV-2002;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                 1 (bases 1 to 786)
Seymour,G.B., Bird,C.R. and Medina-Suarez,
GENETIC CONTROL OF FRUIT RIPENING
Patent: WO 9811228-A 26 19-MAR-1998;
SEYMOUR GRAHAM BARRON (GB)
                                                                                                                                                                                                                                     26;
                                                                                                                                                                                                                                                                                                                                                                                                                                   unidentified
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                                                                                                                                                                                                                                                                                                   /organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"
/clone="U-U125"
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Llwfnasrrslyllkoffpavyagaverlffoslvaadodfprelfpallfgasqytfe
Llwfnasrrslyllevackeaweecgyrlapsdlravasyksgygltossacyteysay
Llacivddpelsleegelievyhlpldgaqafaddddpktlgvifgiswflscvapy
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/EC number="3.6.1.45"
/EC number="3.6.1.45"
/codon_etart=3
/codoct="UDP-sugar diphosphatase"
/protein_id="CAD62374.1"
/protein_id="CAD62374.1"
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Babesia divergens
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Babesia divergens :
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AJ422213
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                                                                                                                                                                                                                                                                   /product="ran binding-like protein 1"
protein_id="CAD19562.1"
/protein_id="CAD19562.1"
/db_xref="GG1:18857689"
/translation="MTDLAKEDPNVPKSDVTTEETPKDHAQQEPKTEAAQPEDAAQEE
EEVYEGDMNTRKVEVERIKVTYGEEDEEIFMQQRSKLYRFGTDTDGDQVMKERGLGE
AKLIKHKTTGKIRFLLRGEKTLKVNYAAHYVLETBALCKLKPGTDTDGDQKTLWVMTANNTYD
DETKVEQMALKFGQIEQAKLFKEKFEEAAKINKAIFDKEK"
                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism="Babesia divergens"
|mol type="mRNA"
|isolate="Rouen 1987"
|db_xref="taxon:32595"
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173 c 200 g
                                                                                                                                                                                                                                                                                                                                                                                                                     country="France"
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                                                                                                                                                                                                                                                                                                                                                                                         function="nucleocytoplasmic transport"
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AUTHORS
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BD140651
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KEYWORDS
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ACCESSION
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AR307577
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AR307577
HUMAN GENOME SCIENCES INC
OS Homo sapiens (human)
PN JP 2002504361-A/37
                                 1 (bases 1 to 1149)
Olsen,H.S., Florence,K.; Brewer,L.A., E
Rosen,C.A. and Duan,R.D.
36 human secreted proteins
Patent: JP 2002504361-A 37 12-FEB-2002;
                                                                                                                                                                                                                                                                                                 26;
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Patent: US 6476195-A 60 05-NOV-2002;
Location/Qualifiers
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Komatsoulis,G., Rosen,C.A., Ruben,S.M.,
Shi,Y., LaFleur,D.W., Wei,Y.-F., Ni,J.,
Brewer,L.A., Soppet,D.R., Endress,G.A.,
Mucenski,M.
                                                                                                                  Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                            Cunningham, F.X.
Carotenoid ketolase ketocarotenoids and
                                                                                           Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                           BD140651.1 GI:23235596 JP 2002504361-A/37.
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                                                                                                                                                                 36 human secreted proteins BD140651
                                                                                                                                                                                        BD140651
                                                                                                                                                                                                                                                                                                                                                                                                       Patent: US 6551807-A 7 22-APR-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unclassified.
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306 c 292 g
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234 c 247 g
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Best Local Similarity
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PC. C12N15/09, A61K31/711, A61K38/00, A61K48/00, A61P7/00, A61P11/06,
PC. A61P15/00,
PC. A61P19/02, A61P25/00, A61P29/00, A61P37/06, C07H21/00, C07K14/47,
PC. C07K16/18,
PC. C07K16/18,
PC. C12N1/15, C12N1/21, C12N5/10, G01N33/68, C12N15/00, A61K37/02, C12N5/ PC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGA421070 1151 bp mRNA Gallus gallus mRNA for bHLH transcription AJ421070 GI:17221420 bHLH transcription factor; CMESO2 gene.
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                                                                                                                                                                                                                                                                               Buchberger, A.
Direct Submission
Submitted (27-NOV-2001) Buchberger
                                                                                                                                                                                                                                                                                                                                                     Dev.
                                                                                                                                                                                                                                                                                                                                                                  Buchberger, A., Bonneick, S., Klein, C. Dynamic expression of chicken cMeso2
                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gallus gallus (chicken)
Gallus gallus
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26-FEB-1998 US 60/076057
PI HENRIK S OLSEN,KIMBERLY FLORENCE,LAURIE A BREWER,REINHARD
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                                                                                                                                                                                                                                                 Braunschweig, Spielmannstrasse
Location/Qualifiers
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24-FEB-1999 JP 2000533445
26-FEB-1998 US 60/076051,26-FEB-1998 US
FEB-1998 US 60/076053,26-FEB-1998 US
FOR-1998 US 60/076057
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Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
176 c 195 g 40
             /gene="CMESO2"
/codon_start=1
/product=:bHLH transcription
/protein_id="CAD12882.1"
/db_xref="GI:17221421"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism='Homo sapiens
Location/Qualifiers
                                                                                                                                               /db_xref="taxon:9031"
/tissue_type="whole embryo"
/dev_stage="HH stage 8"
translation="MAGSPLLLHGLQAPTTASLTPPRELCRPGSGAGLRRCGGPAGRR/
                                                                                                                gene="CMESO2"
                                                                                                                                                                                                                organism="Gallus gallus"
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7, Braunschweig, 38106,
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19-MAR-1998 US 60/078579, 19-MAR-1998 US 60/078579 PR
19-MAR-1998 US 60/078581, 19-MAR-1998 US 60/078577 PR
19-MAR-1998 US 60/078563, 01-APR-1998 US 60/086314 PR
19-MAR-1998 US 60/078563, 01-APR-1998 US 60/080314 PR
19-MAR-1998 US 60/080312, 01-APR-1998 US 60/080314 PR
19-MAR-1998 US 60/080312, 01-APR-1998 US 60/080313 PI STEVEN
19-MAR-1998 US 60/080314 PR
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           1 Similarity
26; Conserv
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Patent: JP 2002506627-A 66 05-MAR-2002;
HUMAN GENOME SCIENCES INC
OS Homo sapiens (human)
PN JP 2002506627-A/66
PD 05-MAR-2002
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Ruben,S.M., Ni,J., Rosen,C
Soppet,D.R., Wei,Y.F., End
Lafleur,D.W., Olsen,H.S.,
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DANIEL R SOPPET, YING FEI WEI, GREGORY A ENDRESS, ROXANNE D DUAN,
HLA KYAW,
REINHAAD EBNER, DAVID W LAFLEUR, HENRIK S OLSEN, YANGGU SHI, PAUL
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19-MAR-1998 US 60/078573,19-MAR-1998 US R-1998 US 60/078573,19-MAR-1998 US R-1998 US 60/078579,19-MAR-1998 US R-1998 US 60/078579,19-MAR-1998 US R-1998 US 60/078581,19-MAR-1998 US R-1998 US 60/078563,01-APR-1998 US R-1998 US 60/080312,01-APR-1998 US
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AHLSALLGESEVLLLRGGAAPRHCPLCPQGLGCCQPPRPRLRPLAPQDASPGLUGW
GTPLELRGALDAGTGTWGSLSSGPVLETRPLHGVPATGMELMLSPSYSPTAGASPEL
HGTPGSWSQPSBPLCSTRAETPLEPPRRCTAATGTGTAPSCCWETAAFSLHPGMRAK
AMGPSGLPTCGSQIGSPLDLDMFISSDAQGTPVLPGCSPARRWGWWS"

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                                                                                                                                        /organism="Homo Bapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
272 c 290 g 39
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J. 03;
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Kyaw,H., Ek
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Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 (bases 1 to 1331)
Reed, S.G., Lodes, M.J., Mohamath, R. and
Compounds for therapy and diagnosis of
                                                                                                                                                                                                                                                                              Homo sapiens (human)
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                                                                                                                                                                  Patent: WO 0172295-A 27 04-OCT-2001; CORIXA CORPORATION (US)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae,
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270 c 304 g
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                                                                                               /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
270 c 304 g 34
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           tester strains and assays
Patent: US 5912140-A 44 15-JUN-1999;
Location/Qualifiers
                                                                        1 (bases 1 to 1352)
Whoriskey, S.K., Quinn, C.L.,
Schimmel, P.R.
                                                                                                                                                                                                  Sequence 44 from patent AR071757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted (27-MAR-2001) Katsuhiro Shiratake, Nagoya University Graduate School of Blo-agricultural Sciences; Chikusa, Nagoya, Aichi 464-8601, Japan (E-mail:shira@agr.nagoya-u.ac.jp, Tel:81527894027, Fax:81527894025)
                                                                                                                                                                                                                                 AR071757
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                                                        Recombinant pneumocystis carinii aminoacyl
                                                                                                                        Unclassified
                                                                                                                                     Unknown.
                                                                                                                                                   Unknown.
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Kobae, Y., Shiratake, K., Goto, H. and Yamaki, S
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PGELTSWSFYRAGIAEFIATELFLYITLTVMGVKSKSKCTTYGIQGLAWAFGGTIF
SLIVSTAGISGGAHNPAVTFGLFLARKLSLTFANFYMYMQTLGAIAGAAVVKGFEKSF
TFEMLGGGANSVAHGYTKGQGLGAEIIGTFVLVYTVFSATDAKRSARDSHVPILAPLP
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HVVVIRAIPFKSK"
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/protein_id="BAB40142.1"
/db_xref="GI:13486940"
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/mol_type="mRNA"
/db_xref="taxon:23211"
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95 human
BD136397
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1 (bases 1 to 1433)

Ruben,S.M., Ni,J., Rosen,C.A., Yu,G.L., Young,P.E., Fen,P., Soppet,D.R., Wei,Y.F., Endress,G.A., Duan,R.D., Kyaw,H., Ebner,R., Lafleur,D.W., Olsen,H.S., Shi,Y. and Moore,P.A.
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05-MAR-2002

F 18-MAR-1999 JP 2000536733

R 19-MAR-1998 US 60/078566,19-MAR-1998 US 60/078573,19-MAR-1998 US 60/078579,19-MAR-1998 US 619-MAR-1998 US 60/078581,19-MAR-1998 US 619-MAR-1998 US 60/078563,01-APR-1998 US 60/078563,01-APR-1998 US 60/080312,01-APR-1998 US
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Patent: JP 2002506627-A 84 05-MAR-2002;
HUMAN GENOME SCIENCES INC
OS Homo sapiens (human)
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
433 c 417 g 29
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Pneumocystis carinii f. sp. ratti
Eukaryota; Fungi; Ascomycota; Pneumocystidomycetes;
Pneumocystidaceae; Pneumocystis.
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                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
                                                                                                               547891.1
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Xenopodinae; Xenopus.
1 (bases 1 to 1467)
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                                                                              Xenopus laevis (African clawed frog)
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HMTIQTAVLIETLVELGAEVTWSSCNIESTQDHAAAAIAASISYFAWKGETEEBYLW
CIETQUTSFKOGKHLAWILDDGGDVTSLVHNKYEPDYLKKGISEETTTGVHQFYKH
KEGKLKVPAINVNDSVTKSKFDNLYGVSLVLIYKIISNIKLRCRESLIDGIKRATDIM
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ADIFVTATGCKDIICERHFEAMKNDAIICNIGHFDVEIDVAWLIKKCSSISNIKPQVD
RYLLGNGRNIILLAEGRLVNLGCATGHSSMVMSMSFTNQVLAQIALWTAQEGQYPLGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /codon_start=1
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                                                                                                               GI:259178
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_xref="taxon:38082"
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1 (Dases 1 to 1550)
Angelo,S., Lohr,J., Lee,K.H., Ticho,B.S., Breitbart,R.E., Hill,S.
Yost,H.J. and Srivastava,D.
Conservation of sequence and expression of Xenopus and zebrafish dHAND during cardiac, branchial arch and lateral mesoderm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GenBank staff at the National Library of Medicine created this entry (NCBI gibbsq 117250) from the original journal article. This sequence comes from Fig. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mediates activin signals in early Xenopus embryos FEBS Lett. 312 (2-3), 169-173 (1992)
                  Texas Southwestern Medical Center, TX 75390, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AF228334
Danio rerio dHAND mRNA,
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                                      Submitted (24-JAN-2000) Pediatrics/Molecular Biology, University of Texas Southwestern Medical Center, 6000 Harry Hines Blvd, Dallas,
                                                                                          Angelo, S., Lohr, J., Lee, K.H., Yost, H.J. and Srivastava, D.
                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi;
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                                                                           Direct Submission
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GNLVNWNELCHITETWARGLSYLHEDVPRCKGEGHKPAIAHRDFKSKNVLIRNDLTAI
LADFGCLAVRFEPGKPPGDTHGOVITCOAINL"
354 c 390 g 342 t
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sgvescegekukrihcyaswrnnsgfielvkkkgcwildpencyngwcilakeenpoyff
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RKPPYGHVDLNEDPGPSPPSPMVGLKPLQLLEIKARGRFGCVMKARLLNEYVAVKIFP
Location/Qualifiers
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/db_xref="GI:259179"
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|mol_type="mRNA"
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                                                                                                                    Breitbart, R.E.,
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KEYWORDS
SOURCE
ORGANISM
Search completed: January 28, 2004, 17:25:12 Job time: 4879 secs
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Best Local Similarity
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Plant inositol polyphosphate phosphatase homologs
Patent: WO 0104147-A 11 18-JAN-2001;
E.I. DU PONT DE NEMOURS AND COMPANY (US)
Location/Qualifiers
1. .1579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 11 from Patent WO0104147.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Triticum aestivum (bread wheat)
Triticum aestivum
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnollophyta; Liliopsida; Poales; Poaceae;
Pooideae; Triticeae; Triticum.
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TOSINSAFAELBECIENVPADTKLSKIKTLRLATSYIAYLMDILDKDEGMGETEAFKA
TOSINSAFAELBECIENVFADTUSAFKIKTLRLATSYIAYLMDILDKDEGMGETEAFKA
EFKKTDAKEERRKKEMNDVLKSSGSSNDKKTKGRTGWPQHVWALELKQ"
a 322 c 331 g 440 t
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356 c 333 g 440 t
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/mol_type="mRNA"
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1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep: *

2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep: *

3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep: *

4: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep: *

5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep: *

6: /cgn2_6/ptodata/2/iaa/backfiles1.pep: *
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US-09-705-705-1820
US-09-706-457-1820
US-09-736-196-24
US-08-316-728A-56
US-09-326-352-6119
US-08-441-139-18
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US-08-441-139-18
US-08-18-270-186
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US-08-18-270-186
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JS-08-943-915-5

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JS-08-943-915-5

JS-08-471-018-5

JS-08-470-037-26

JS-08-868-452-26
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| S-09-975-553-16
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| S-09-1687-177-2
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S-08-188-584-3
S-09-198-452A-507
S-09-162-021B-10
S-09-184-993B-45
S-08-484-158B-45
S-08-484-596A-45
S-08-488-150A-45
S-08-488-130A-45
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-09-328-352-6310
-09-112-248-2
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-09-687-477-8
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-09-252-991A-32648
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PRIOR FILING DATE: 1998-02-09
PRIOR PEPLICATION NUMBER: 60/081,563
PRIOR FILING DATE: 1998-04-13
PRIOR APPLICATION NUMBER: 60/096,116
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/099,273
PRIOR FILING DATE: 1998-09-04
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US-09-328-352-6592
                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Pa
SEQ ID NO 93
LENGTH: 72
                                                                                                                                                               FEATURE:
NAME/KEY: SIGNAL
LOCATION: -32..-1
S-09-663-600A-93
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PRIOR APPLICATION NUMBER: 09/191,997
PRIOR FILING DATE: 1998-11-13
PRIOR APPLICATION NUMBER: 60/066,677
PRIOR APPLICATION NUMBER: 60/066,957
PRIOR APPLICATION NUMBER: 60/069,957
PRIOR PILING DATE: 1997-12-17
PRIOR FILING DATE: 1997-12-17
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SEQ ID NO 6592
LENGTH: 520
TYPE: PRT
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Patent No. 6562958
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TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 229
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CURRENT APPLICATION NUMBER: US/09/328,352
CURRENT FILING DATE: 1999-06-04
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; LENGTH: 72
; TYPE: PRT
; ORGANISM: Homo sapiens
FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -32..-1
US-09-663-600A-187
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Patent No. 6448230
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SEQ ID NO 187
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                                                                                                                                                                                                                                                                          TITLE OF INVENTION: 28 Human Secreted Proteins
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PRIOR FILING DATE: 1998-11-13
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PRIOR APPLICATION NUMBER: 60/069,957
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APPLICATION NUMBER: 60/040,762
FILING DATE: 1997-03-14
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                                                                                                                                                                                                                    FILING DATE: 1998-09-
                                                                                                                                                                                                                                     APPLICATION NUMBER: US/09/152,060
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RESULT 6
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SEQ ID NO 95
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CURRENT APPLICATION NUMBER: US/09/663,600A
CURRENT FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: 09/191,997
PRIOR FILING DATE: 1998-11-13
PRIOR APPLICATION NUMBER: 60/66,677
PRIOR APPLICATION NUMBER: 60/66,957
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/069,957
PRIOR FILING DATE: 1997-12-17
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NUMBER OF SEQ ID NOS: 118
SOFTWARE: PATENTIN VEY: 2.0
SEQ ID NO 61
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Best Local
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Best Local Similarity 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/096,116
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/099,273
PRIOR FILING DATE: 1998-09-04
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EARLIER FILING DATE: 1997-05-30
EARLIER APPLICATION NUMBER: 60/057,765
EARLIER FILING DATE: 1997-09-05
EARLIER FILING DATE: 1997-09-05
EARLIER FILING DATE: 1997-06-06
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/068,368
EARLIER APPLICATION NUMBER: 60/068,368
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 100
TYPE: PRT
ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/074,121
FILING DATE: 1998-02-09
APPLICATION NUMBER: 60/081,563
FILING DATE: 1998-04-13
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7, Conserve
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6573068
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Bougueleret, Lydie
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0; Mismatches
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CURRENT APPLICATION NUMBER: US/09/702,705
CURRENT FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 1833
SOPTWARE: PastSEQ for Windows Version 3.0
SEQ ID NO 1820
LENGTH: 212
TYPE: PRT
ORGANISM: Homo sapiens
US-09-702-705-1820
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Best Local Similarity
Thes: 7; Conserve
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PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/074,121
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/081,563
PRIOR APPLICATION NUMBER: 60/096,116
PRIOR APPLICATION NUMBER: 60/096,116
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SEQ ID NO 189
LENGTH: 106
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Query Match
Best Local Similarity
                                                                                                                                                                                                                                                  APPLICANT: Retter, Marc
APPLICANT: Mannion, Jane
APPLICANT: Fan, Liqun
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.478614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 19
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PRIOR FILING DATE: 1998-11-13
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NAME/KEY: SIGNAL
LOCATION: -32..-
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ORGANISM: Homo sapiens
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Vedvick, Tom
Carter, Darrick
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Lodes, Michael A.
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Conservative 0; Mismatches
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3.6%; Score 7; DB 4; Length 212; 100.0%; Pred. No. 41;
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o. 22;
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US-09-736-457-1820
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SEQ ID NO 1820
LENGTH: 212
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Best Local Similarity 100.0%;
Matches 7; Conservative (
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TITLE OF INVENTION: COMPOSITIONS AND METHODS
TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.478C15
CURRENT APPLICATION NUMBER: US/09/736,457
CURRENT FILING DATE: 2000-12-13
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                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/022,997
FILING DATE: 02-AUG-1996
                                                                                                                                                                                                                                                                                                                       APPLICANT: Rauscher III, Fr
APPLICANT: Jensen, David E.
TITLE OF INVENTION: BRCA1 A
TITLE OF INVENTION: Uses Th
                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 4
                                             APPLICATION NUMBER: FILING DATE: CLASSIFICATION:
                                                                                                                                                                                                                                           STREET: Spring House Corporate Cntr., PO Box 457 CITY: Spring House
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Vedvick, Tom
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Lodes, Michael
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Retter, Marc
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Michael A.
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                                                                             US/09/230,196
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Mismatches
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GENERAL INFORMATION:
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                                                                               TELEPHONE: 215-540-920
TELEFAX: 215-540-5818
INFORMATION FOR SEQ ID NO:
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INFORMATION FOR SEQ ID NO:
                                                               SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Rauscher III,
APPLICANT: Jensen, David
TITLE OF INVENTION: BRCA1
TITLE OF INVENTION: Uses
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 19-FEB-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                         FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: Spring House
STATE: Pennsylvania
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 223 amino acids
TYPE: amino acid
                  STRANDEDNESS
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                                                ENGTH:
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                                                223 amino acids
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APPLICATION NUMBER: US 60/022,997
FILING DATE: 02-AUG-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/038,109
FILING DATE: 19-FEB-1997
ATTORNEY/ACENT INFORMATION:
NAME: Bak, Mary E
                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                    REGISTRATION NUMBER: 31,215
REFERENCE/DOCKET NUMBER: WST68BUSA
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: US 60/022,997
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REFERENCE/DOCKET NUMBER: WS'
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-540-9200
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nes 7; Conservative 0;
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Spring House Corporate Cntr., PO Box 457
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o. 43;
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Query Match
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                                                                                                                                                                     INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 0-
FILING DATE: 25-NOV-11
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 0
FILING DATE: 01-OCT-1:
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atent No. 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 282 amino acid
                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/422,383
FILING DATE: 16-OCT-1989
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PRIOR APPLICATION DATA:
07/982,255
                                                                     TOPOLOGY: 1:
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ADDRESSEE Marshall, O'Toole, Gerstein, Murray & Borun
ADDRESSEE Marshall, O'Toole, Gerstein, Murray & Borun
ADDRESSEE Marshall Tower, 233 South Wacker Drive
                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
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hea 7; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: FILING DATE: 24-AU
                                                                                                                                                                                                      TELEFAX:
                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 01017/32956
                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: FILING DATE: 11-JUN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY: United States of America ZIP: 60606-6402
                                                                                                      STRANDEDNESS:
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                                                                                                                      amino acid
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INVENTION: Stem Cell Factor
                                                                                                                                                                                          25-3856
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Application US/08336728A
                                                                                                                                                                                                         312/474-0448
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                                                                                                                                    amino acids
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100.0%; Pred. No.
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Pred. No.
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o. 43;
     DB 3;
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                      Length 282;
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US-08-441-139-18
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LENGTH: 432
TYPE: PRT
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Patent No. 6562958
GENERAL INFORMATION:
APPLICANT: Gary L. Breton et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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CURRENT FILING DATE: 1999-06-04
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               TELEX: 230 901 SANS UR (NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Acinetobacter baumannii
                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy of COMPUTER: IBM PC com
                                                             REFERENCE/DOCKET NUMBER: 86
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
                                                                                                                                                                         CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: 1
                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Wittrup, APPLICANT: Robinson,
SEQUENCE CHARACTERISTICS:
                                                                                                           FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: DiGiglio, Frank S.
REGISTRATION NUMBER: 31,
                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                          TELEFAX: 516-742-4366
                                                                                                                                                                                                                            APPLICATION NUMBER: FILING DATE: 15-MAY
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                                                           TELEPHONE:
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00.0%; Pred. No.
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D PROTEINS
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                                                                                                                          US-09-453-702B-257
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US-09-453-702B-257
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                                                             Matches
                                                                                        Query Match
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                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO: 257:
                                                                           Local Similarity
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                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 60/110,955
FILING DATE: 04-DEC-1998
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/09/453,702B
FILING DATE: 03-Dec-1999
CLASSIFICATION: <UNKNOWN>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOPTWARE: Word Perfect 8.0 CURRENT APPLICATION DATA:
                                                                                                                                       TOPOLOGY: linear MOLECULE TYPE: protein SEQUENCE DESCRIPTION: 5
                                                                                                                                                                                                                                                                                               NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 99
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM: MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Weich, Rod
TITLE OF INVENTION: No. 6365723el Sequences of E. coli 0157
NUMBER OF SEQUENCES: 265
                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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314 SGILKNI 320
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                              31 SGILKNI 37
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                                                                                                                                                                                                                     LENGTH: 3169 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 South Pinckney Street
                                                                                                                                                                                                                                                                  E: (608) 251-5000
(608) 251-9166
                                                      3.6%; 5c.
100.0%; Pr
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f; Pred. No. 90;
0; Mismatches
                                                             Score 7; DB 4; Le
; Pred. No. 4.8e+02.
0; Mismatches 0
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                 Patent No.
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                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                            APPLICANT: Imperiali, Barbara
APPLICANT: Walkup, Grant K.
TITLE OF INVENTION: PEPTIDYL F
TITLE OF INVENTION: DIVALENT Z
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: 15
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET: 255 CITY: Chicago
                                                                                                                                                                                                            ADDRESSEE: BRINKS, HOFER, GILSON & LIONE STREET: NBC Tower - Suite 3600, 455 N. Cityfront STREET: Plaza Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
               APPLICATION NUMBER: FILING DATE: 22-MAR
                                                                                                                                                                               CITY: Chicago
STATE: Illinois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: WO PCT/EP95/04258 FILING DATE: 30-OCT-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: FILING DATE: 28-APP
CLASSIFICATION:
                                                                                                                                                            COUNTRY: USA-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENGTH:
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6; Conserv
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                                                                                                                                              60611-5599
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233 S. Wacker Drive, 6300 Sears Tower
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             22-MAR-1996
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32
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                             US/08/620,151
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o. 6579691el Protein Kinase (NPK-110)
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Pred. No.
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o. 2.5e+05;
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RESULT 17
US-08-118-270-186
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                                                                        US-08-118-270-186
                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION UMBER: US/08/118,270
FILING DATE: 09-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,236
FILING DATE: 10-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: TOWNBERI NO 071
                                                                                   TELEFAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
Query Match 3.1%; Score 6; DB 1; Best Local Similarity 100.0%; Pred. No. 68; Matches 6; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 186, Application US/08118270
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 26 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Schuster, David I.
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
NUMBER OF SEQUENCES: 348
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 85
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-321-4200
                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION: TELEPHONE: 202-628-5197
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TOPOLOGY: 11
                                                                                                                                                                                                               STREET: 419 Seven CITY: Washington STATE: D.C.
                                                                                                                                                                                                                                                                                    REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: MURPHY=2A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Shannon, Karen L
REGISTRATION NUMBER: 36
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y 100.0%; Pr
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0; Mismatches
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; Sequence 186, Application PC/TUS9308528
; GENERAL INFORMATION:
; APPLICANT: New York University
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Matches
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,270
FILING DATE: 09-SEP-1993
PRIOR. APPLICATION DATA:
APPLICATION NUMBER: US 07/943,236
FILING DATE: 10-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, Kevin G.
REGISTRATION NUMBER: 34,033
                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX: 248633
INFORMATION FOR SEQ ID NO:
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ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
                                                                                          APPLICANT: New York University
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
NUMBER OF SEQUENCES: 348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
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                                                                            CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE:
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                                                                                                                                                                                                                                                                                                                                                                   Local Similarity hes 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acid
STRANDEDNESS: si
TOPOLOGY: linear
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                                    STREET:
                                                    ADDRESSEE:
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TELEFAX: 202-737-3528
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Washington D.C.
                                    419 Seventh Street, N.W.,
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APPLICANT: New York TITLE OF INVENTION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Loc
Matches
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                                                  PILING DATE: 09-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 07/943,236
FILING DATE: 10-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Townsend, Kevin G.
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: MURPHY=2 PCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptide
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING PATENTIAN PATENTIAN APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/08528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: PCT/US93/08528
FILING DATE: 09-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,236
FILING DATE: 10-SEP-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: MUTELECOMMUNICATION INFORMATION: TELEPHONE: 202-628-5197
                                   TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
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STREET: 419 Seventh Street, N.W., Suite 300
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6; Conserv
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VENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
VENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
                                                                                                                                                                                                                                                                                                                                                  USA
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Query Match
Best Local Similarity
Matches 6; Conserva
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                                           US-08-331-625A-20
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                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: Miller
                                                                                                                             TELEPHONE: (215) 270-50
TELEFAX: (215) 270-5090
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 19406-2799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/331,625A
                                                          MOLECULE TYPE:
                                                                                                               SEQUENCE CHARACTERISTICS:
                                                                                                                                                                     REFERENCE/DOCKET NUMBER: SH
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 07
FILING DATE: 13-MAY-1991:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Canine Control of Invention: Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear MOLECULE TYPE: peptide
                                                                                                                                                                                                                              FILING DATE: 14-NOV-1990 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                    TOPOLOGY:
                                                                                                                                                                               TORNEY/AGENT AND CONTROL A:
NAME: Schreck, Patricia A:
REGISTRATION NUMBER: 33,777
REGISTRATION NUMBER: SBC H85010-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: King of Prussia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE: SmithKline Beecham Corporation - Corporate ADDRESSEE: Patents STREET: 709 Swedeland Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
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                                                                                                  ENGTH:
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6057436
                                                                                 amino acid
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                                                                                                  37 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Reed, Albert Paul
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linear
                                                                      unknown
                                                       protein
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                                                                                                                                                                                                                                                             US 07/613,066
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Score 6; DB 3; pred. No. 78;
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Query Match Best Local Similarity

3.1%; 100.0%;

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TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: 905-09-494-151-20
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RESULT 23
US-08-118-270-187
; Sequence 187, Application US/08118270
; Patent No. 5508384
; GENERAL INFORMATION:
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Patent No. 6372224
GENERAL INFORMATION:
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Best Local Similarity
Matches 6; Conserv
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TELEPAX: (215) 270-5
INFORMATION FOR SEQ ID NO: 20:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/331,625
APPLICATION NUMBER: US 07/698,927
APPLICATION NUMBER: US 07/698,927
FILING DATE: 13-MAY-1991
APPLICATION NUMBER: US 07/613,066
FILING DATE: 14-NOV-1990
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Schreck, Patricia A.
REGISTRATION NUMBER: 33,777
REFERENCE/DOCKET NUMBER: SBC H85010-1
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTMARB: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 19406-2799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation - Corporate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Canine Coronavirus S Gene and Uses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Miller, Timothy J.
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                                                                                                                        26 GSWLGG
                                                                                                                                                       52 GSWLGG 57
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/09/494,151
FILING DATE: 28-Jan-2000
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: King of Prussia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 709 Swedeland Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Application US/09494151
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Reed, Albert Paul
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                                                                                                                        31
                                                                                                                                                                                         3.1%; Score 6; DB 100.0%; Pred. No. 78
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                                                                                                                                                                                                                                                                              SEQ ID NO: 20:
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5. 78;
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Best Local
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; MOLECULE TYPE: US-08-118-270-187
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                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 187, Application PC/TUS9308528 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEX: 248633
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/08/
FILING DATE: 09-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/
FILING DATE: 10-SEP-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Townsend, Kevin G.
REGISTRATION NUMBER: 34,033
REGISTRACED NUMBER: MURE
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
                                                                                                                                                                                                                                                                                                  APPLICANT: New York University
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND MI
NUMBER OF SEQUENCES: 348
CORRESPONDENCE ADDRESS:
                                                     MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 38 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Murphy, Randall B.
APPLICANT: Schuster, David I.
TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
                                                                                                                                       COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                  STREET: 419 Seven CITY: Washington STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 38 amino acids
TYPE: amino acid
STRANDEDNESS: single
                   APPLICATION NUMBER: PCT/
FILING DATE: 09-SEP-1993
                                                                                                                                                                                                   COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADDRESSEE:
                                                                                                                                                                                                                                                                                    ADDRESSEE:
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Similarity 100.0%; Pred. No. 80
6; Conservative 0; Mismatches
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419 Seventh Street, N.W., Suite 300
                                                                                                                                                                                                                                                        419 Seventh Street, N.W., Suite 300
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linear
E
                                                                                                                                                                                                                                                                                    BROWDY AND NEIMARK
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                                        PCT/US93/08528
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                                                                                                                                                                                                                                                                                                                                                 AND METHODS THEREOF
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FILING DATE: 10-SEP-1992 ATTORNEY/AGENT INFORMATION:

10-SEP-1992

US 07/943,236

APPLICATION NUMBER:

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US-08-861-476C-5
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US-09-266-764-24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TOPOLOGY: linear; MOLECULE TYPE: pepi
PCT-US93-08528-187
                                                                         Sequence 5, Application US/08861476C
Patent No. 6447786
GENERAL INFORMATION:
APPLICANT: New York University Medical Center
TITLE OF INVENTION: BLOCKING EXPRESSION OF VIRULENCE FACTORS IN S. AUREUS
FILE REFERENCE: 63753/7
CURRENT APPLICATION NUMBER: US/08/861,476C
CURRENT FILING DATE: 1997-05-22
                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 24
LENGTH: 44
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity luv.
Thes 6; Conservative
                             SOFTWARE: PatentIn version 3.0 SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 24, Application US/09266764
Patent No. 6545139
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Baylor College of Medicine
TITLE OF INVENTION: Compositions and Methods For the Treatment
TITLE OF INVENTION: Prevention of Metastatic Disorders
FILE REFERENCE: 00A146.0122
CURRENT APPLICATION NUMBER: US/09/266,764
CURRENT FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/077,934
PRIOR PILING DATE: 1998-03-13
NUMBER OF SEQ ID NOS: 27
                                                               NUMBER OF SEQ ID NOS: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEX: 248633
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Ver. 2.1
LENGTH: 46
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Townsend, Kevin G.
REGISTRATION NUMBER: 34,033
REFERENCE/DOCKET NUMBER: MU
TELECONMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
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TELEFAX: 248633
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100.0%; Pred. No. 91.
ive 0; Mismatches
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%; Pred. No. 80;
0; Mismatches
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Query Match
Best Local Similarity
Grandes 6; Conserve
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                                                                                                                                            ; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4520
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US-09-134-001C-4520
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                                                                                                                                                                                           GENERAL INFORMATION:

APPLICANT: Lynn Doucette-Stamm et al
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
TILE REPERENCE: GTC-007
CURRENT APPLICATION NUMBER: US/09/134,001C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/064,964
PRIOR APPLICATION NUMBER: US 60/064,764
PRIOR APPLICATION NUMBER: US 60/055,779
PRIOR FILING DATE: 1997-11-08
PRIOR FILING DATE: 1997-08-14
NUMBER OF SEQ ID NOS: 5674
SEQ ID NO 4520
LENGTH: 68
                                                                                     Query Match
Best Local (
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APPLICANT: Marc J. Rubenfield et al.
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
FILE REFERENCE: 107196.136
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Patent No. 6380370
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Matches 6; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
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                                    142 KINKIS 147
 45 KINKIS
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                                                                  l Similarity
6; Conserv
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100.0%;
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Pred. No.
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RESULT 29
US-09-205-258-1151
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Patent No. 65251
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CURRENT FILING DATE: 1998-12-04
EARLLER APPLICATION NUMBER: EC/US98/11422
EARLIER FILING DATE: 1998-06-04
EARLIER APPLICATION NUMBER: 60/048,885
EARLIER FILING DATE: 1997-06-06
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                                 FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,949
FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,974
                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 60/048,972
FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,916
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APPLICATION NUMBER: 60/048,964
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                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/048,970
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                                                                                                                            APPLICATION NUMBER: 60/048,917
                                                                                                                                                FILING DATE: 1997-06-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/048,892
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LING DATE: 1997-06-06
PLICATION NUMBER: 60/
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                                                                                                                                                                                                             NUMBER: 60/048,875
                                                                                                                                                                                                                                                                                                   NUMBER: 60/048,916
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EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,878
EARLIER APPLICATION NUMBER: 60/070,923
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/070,923
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER FILING DATE: 1998-07-30
NUMBER OF SEQ ID NOS: 1227
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Best Local S
Matches 6
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SEQ ID NO 1151
LENGTH: 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 18, Application US/09073297 Patent No. 6255114
                                                                                        PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/852615

FILING DATE: MAY 7, 1997

ATTORNEY/AGENT INFORMATION:

NAME: MAJARIAN, WILLIAM R.

REGISTRATION NUMBER: 41,173

REFERENCE/DOCKST NUMBER: BB-1083-B

TELECOMMUNICATION INFORMATION:

TELEPHONE: 302-992-4926
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
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EARLIER
              TELEFAX: 302-773-0164
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 78 amino acids
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TYPE: PRT
                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: DISKETTE, 3.50 INCH
MEDIUM TYPE: DISKETTE, 3.50 INCH
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: MICROSOFT WINDOWS 95
SOFTWARE: MICROSOFT WORD VERSION 7.0A
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/073,297
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
LENGTH: 78 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                     CLASSIFICATION:
                                                                                                                                                                                                                                                                                             FILING DATE:
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FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,963
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FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,898
FILING DATE: 1997-06-06
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1007 MARKET
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                                                                                                                                                                                                                                                                                           DATA:
R: US/09/073,297
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; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-073-297-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT FILING DATE: 1998-12-04

EARLIER APPLICATION NUMBER: PCT/US98/11422

EARLIER APPLICATION NUMBER: 60/048,885

EARLIER FILING DATE: 1997-06-06

EARLIER FILING DATE: 1997-06-06

EARLIER FILING DATE: 1997-06-06

EARLIER FILING DATE: 1997-06-06

EARLIER APPLICATION NUMBER: 60/048,881

EARLIER APPLICATION NUMBER: 60/048,880

EARLIER APPLICATION NUMBER: 60/048,880

EARLIER APPLICATION NUMBER: 60/048,880

EARLIER APPLICATION NUMBER: 60/048,880

EARLIER APPLICATION NUMBER: 60/048,886

EARLIER APPLICATION NUMBER: 60/048,896

EARLIER APPLICATION NUMBER: 60/048,896

EARLIER APPLICATION NUMBER: 60/048,896
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Patent No. 6529
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FILE REFERENCE: PZ007P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
les 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INFORMATION:
                                            APPLICATION NUMBER: 60/048,970 FILING DATE: 1997-06-06 APPLICATION NUMBER: 60/048,972 FILING DATE: 1997-06-06
              APPLICATION FILING DATE
                                                                                                                                                                                                                                                        FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,900
FILING DATE: 1997-06-06
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APPLICATION NUMBER: 60/048,894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,884
                                                                                                                    FILING DATE
                                                                                                                                    APPLICATION NUMBER: 60/049,019
                                                                                                                                                                    APPLICATION NUMBER: 60/048,915
                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/048,901
                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 60/048,893
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FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/048,882
                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 60/048,964 FILING DATE: 1997-06-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: 60/048,971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/048,895
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                                                                                                                                                                                                  ILING DATE: 1997-06-06
PPLICATION NUMBER: 60/048,892
                                                                                                                                                      ILING DATE
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                NUMBER: 60/048,916: 1997-06-06
                                                                                                                                                                                                                                                                                                                          NUMBER: 60/048,899: 1997-06-06
NUMBER:
                                                                                                                    1997-06-06
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100.0%; Pre
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k; Pred. No. 1.5
0; Mismatches
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No. 1.5e+02;
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CURRENT APPLICATION NUMBER: US/09/375,140
; CURRENT FILING DATE: 1999-08-16
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 9
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-09-375-140-9
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US-09-375-140-9
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NUMBER OF SEQ ID NOS: 1227
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1038
                 Query Match
Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
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   Matches
                                                                                                                                                                                                                         APPLICANT: Kavanagh, T.
APPLICANT: Lao, N.
TITLE OF INVENTION: A NOVEL PLASTID-TARGETING NUCLEIC ACID SEQUENCE, A
TITLE OF INVENTION: NOVEL BETA-AMYLASE SEQUENCE, A STIMULUS-RESPONSIVE
TITLE OF INVENTION: PROMOTER AND USES THEREOF
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APPLICATION NUMBER:
FILING DATE: 1997-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                            33 ILKNIS 38
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FILING DATE: 1998-07-15
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APPLICATION NUMBER: 60/048,962
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l Similarity
6; Conserva
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 3.1%; Score 6; DB 4; Lei
100.0%; Pred. No. 1.7e+02;
ative 0; Mismatches 0;
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                                  Length 86;
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US-08-665-259-2
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                                                                                                                                                                                                                        RESULT 34
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Best Local Similarity
                                                                                                                                                                                    Sequence
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                                                                                                                              GENERAL INFOF
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: DUGAN, Deborah A.
REGISTRATION NUMBER: 37,315
REFERENCE/DOCKET NUMBER: 105-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (508) 872-8400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (508) 872-8400
TELEFAX: (508) 872-5415
INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                   tent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
LENGTH: 90 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/665,259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 73
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENZYME CORPORATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Dackowski, william R.
APPLICANT: Van Rasy, Terence J.
APPLICANT: Klinger, Katherine W.
FITLE OF INVENTION: NOVEL HUMAN CHROMOSOME 16 GENES,
TITLE OF INVENTION: COMPOSITIONS, METHODS OF MAKING AND USING SAME
                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
STRANDEDNESS: no
TOPOLOGY: unknow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/0 FILING DATE: 17-JUN-1996
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5. 6028173
   OF INVENTION:
                                                                                                                                                 INFORMATION:
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                                                                                                                                                                                                                                                                              31 ALEAVS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             United States of America
Dackowaki, William R.
Van Raay, Terence J.
Klinger, Katherine W.
KRITION: NOVEL HUMAN CHROMOSOME 16 GENES,
VENTION: COMPOSITIONS, METHODS OF MAKING AND USING SAME
                                                                                                                                                                                                                                                                                                                                                   3.1%; Sillarity 100.0%; Conservative 0;
                                                                                                             Burn, Timothy C.
                                                                                            Connors, Timothy D.
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                                                                                                                              Gregory M.
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Mismatches
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o. 1.8e+02;
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RESULT 35
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Best Local :
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/665,259
FILLING DATE: 17-JUN-1996
FILLING DATE: 17-JUN-1996
PRICE APPLICATION NUMBER: PCT/US96/10469
FILLING DATE: 17-JUN-1996
FILLING DATE: 17-JUN-1996
ATTORNEY/AGENT INFORMATION:
NAME: Dugan, Deborah A.
REGISTRATION NUMBER: 37,315
REFERENCE/DOCKET NUMBER: IG5-9.3
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: (508) 872-5415
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 90 amino acide
                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORM
                                  APPLICANT: Rosenberg, Marca...
APPLICANT: Mard, Judith
TITLE OF INVENTION: No. 6348582el Prokaryotic Polynucleotides,
TITLE OF INVENTION: Polypeptides and Their Uses
NUMBER OF SEQUENCES: 534
CORRESPONDENCE ADDRESS:
ADDRESSE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                               APPLICANT:
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MEDIUM TYPE: Floppy COMPUTER: IBM PC com
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ADDRESSEE: GENZYME CORPORATION
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                                                                                                                                                                                                                                                                               APPLICANT:
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nes 6; Conserv
                                CITY: King of Prussia STATE: PA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: FILING DATE: 09-DEC
COUNTRY: USA
ZIP: 19406-0939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
TOPOLOGY: unk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Framingham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31 ALEAVS
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United States of America
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                                                                                                                                                                                                        Pratt, Julie
Reichard, Richard
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                                                                                                                                                                                                                                                         Knowles, David
Lonetto, Michael
                                                                                                                                                                                                                                                                                           Hodgson, John
                                                                                                                                                                                                                                                                                                               Burnham, Martin
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                                                                                                                                                                                                                                           Richard
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100.0%; Pred. No.
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COMPUTER READABLE FORM:

MEDIUM TYPE: Dis COMPUTER: IBM Co OPERATING SYSTEM:

IBM Compatible

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US-08-331-625A-9
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CLASSIFICATION: 536

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/027,032

FILING DATE: 24-SEP-1996

ATTORNEY/AGENT INFORMATION:
NAME: Gimmi, Edward R
REGISTRATION NUMBER: 38,891
REFERENCE/DOCKET NUMBER: P50549

TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION 1010-270-4478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 9, App...
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Matches 6; Conserv
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                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SENERAL INFORMATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/880,194
FILING DATE: 08-MAY-1992
PRIOR APPLICATION UMBER: US 07/698,927
FILING DATE: 13-MAY-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/936,165A FILLING DATE: 24-SEP-1997
                                                                                                                                 SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/331,625A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TOPOLOGY: li
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                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: Canine C
TITLE OF INVENTION: Therefor
NUMBER OF SEQUENCES: 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                             STREET: 709 5 Prussia
                                                                                                    CLASSIFICATION: 435
                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                               ADDRESSEE: SmithKline Beecham Corporation - Corporate ADDRESSEE: Patents STREET: 709 Swedeland Road
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                                                                                                                                                                                                                                                                                 COUNTRY:
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                                                                                                                                                                                                                                                                                 USA
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Reed, Albert Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Miller, Timothy J.
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o. 1.9e+02;
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GENERAL INFORMATION:
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TELEFAX: (215) 270-5090
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                       INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 14-NOV-1990
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                       APPLICATION NUMBER: US/09/494,151
FILING DATE: 28-Jan-2000
CLASSIFICATION: CUNKNOWN>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/331,625
FILING DATE: -UNKNOWN>
APPLICATION NUMBER: US 07/698,927
APPLICATION NUMBER: US 07/698,927
FILING DATE: 13-MAY-1991
APPLICATION NUMBER: US 07/613,066
FILING DATE: 14-NOV-1990
ATTORNEY/ACENT INFORMATION:
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les 6; Conserv
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TYPE: amino acid
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Schreck, Patricia A REGISTRATION NUMBER: 33,7' REFERENCE/DOCKET NUMBER: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY:
                                                     NAME: Schreck, Patricia A.
REGISTRATION NUMBER: 33,777
REFERENCE/DOCKET NUMBER: SBC H85010-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (215) 270-5015
TELEFAX: (215) 270-5090
                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Jones, Elaine V. TITLE OF INVENTION: Canine Coronavirus S Gene and Uses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STATE: FA
COUNTRY: USA
COUNTRY: 19406-2799
                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STREET: 709 Swedeland Road CITY: King of Prussia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: SmithKline Beecham Corporation - Corporate
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LENGTH: 126 amino acids
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Reed, Albert Paul
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00.0%; Pred. No.
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o. 2.4e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                           TELEFAX: (619) 235-0176
NFORMATION FOR SEQ ID NO: 310:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ent No.
                                                                                                                                                                                                                    MOLECULE TYPE: PROTEIN
ORIGINAL SOURCE:
ORGANISM: Homo Sapiens
TISSUE TYPE: Brain
                                                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: IBraelsen, Ned A.
REGISTRATION NUMBER: 29,655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 127 amino acide
TYPE: AMINO ACID
                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: (619) 235-8550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS
                                                                                                                   LOCATION: -118..-1
IDENTIFICATION METHOD: Von Heijne matrix
OTHER INFORMATION: score 6.7
OTHER INFORMATION: seq LLFAKLFGHLTSA/RR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity 100 hes 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible OPERATING SYSTEM: win95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
ZIP: 92101-3505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: 501 West
                                                                                                                                                                               NAME/KEY: 61g_peptide
LOCATION: -118..-1
                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE:
                                                                                                                                                                                                                                                                                   ropology:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: unknown
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 9:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          52 GSWLGG 57
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                                                        6; Conserv
                            IFFFLL 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     California
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                                                        Conservative
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ENTION: 5' ES
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100.0%; Pr
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; Pred. No. 2.4e+02;
0; Mismatches 0;
                                                      Score 6; DB 3; Le
; Pred. No. 2.4e+02;
0; Mismatches 0;
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                                                                                      Length 127;
                                                         Indels
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                                                                                                                                                     GENERAL INFORMATION: APPLICANT: Marc J.
                                                                                                                                                                                   Sequence 32648, Application US/09252991A Patent No. 6551795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 314, Application US/08858207A
                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                               FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
                                                                                                                                                                                                                      09-252-991A-32648
                                                                                              APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AMINO ACID SEQUENCES RELATING
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                   PRIOR APPLICATION NUMBER: PRIOR FILING DATE: 1998-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/01:
FILING DATE: 14-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Gimmi, Edward R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FASTSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                            MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM CO
OPERATING SYSTEM:
SOFTWARE: FastSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGISTRATION NUMBER: 38,891
REFERENCE/DOCKET NUMBER: P5
LECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: FILING DATE: 09-MAY
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                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                         51 LGLING
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VENTION: No. 6348328el Compounds
EQUENCES: 552
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Knowles, David
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Conservative (
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09-MAY-1997
N: 425
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                            : 1999-02-18
UMBER: US 60/074,788
1998-02-18
MBER: US 60/094,190
1998-07-27
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Query Match
Best Local Similarity
6; Conserva
RESULT 42
US-08-788-584-3
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JS-08-788-584-1
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SEQ ID NO 32648
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Patent No. 5837493
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Matches 6; Conserv
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INFORMATION FOR SEQ ID NO: 1:
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TYPE: PRT
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NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
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                                                                                                                             103 EAHCLK 108
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                                                                                                                                                                                         89 EAHCLK 94
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         145 amino acids
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VENTION: NOVEL HUMAN GALECTINS
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                                                                                                                                                                                                                                                           Conservative
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Hawkins, Phillip R.
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tive 0;
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100.0%; Pred. No.
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b. 2.6e+02;
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RESULT 43
US-09-198-452A-507
; Sequence 507, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
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Best Local Similarity
Watches 6; Conserv
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                                                                   NUMBER OF SEQ ID NOS:
SEQ ID NO 507
LENGTH: 155
TYPE: PRT
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Query Match
                                                                                                                                   FILE REFERENCE: 9710-003-999
CURRENT APPLICATION NUMBER: US/09/198,452A
CURRENT FILING DATE: 1998-11-24
                                                                                                                                                                              APPLICANT: Griffais, R.
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, frac
TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis,
TITLE OF INVENTION: and treatment of infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO:
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FILING DATE: Filed He
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                 ORGANISM: Chlamydia pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 149 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM: MEDIUM TYPE: Diskett
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REGISTRATION NUMBER: 36
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
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Hawkins, Phillip R.
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NOVEL HUMAN GALECTINS
3.1%; Score 6;
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 DB 4;
 Length 155;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 08/622,738
PRIOR FILING DATE: 1996-03-27
NUMBER OF SEQ ID NOS: 19
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 10
LENGTH: 157
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 45, Apr - No. 5837497
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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                              COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PACENTIN Release #1.0, Vers
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/484,993B
FILING DATE: 09-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Polycation-Sensing Receptor in Aquatic TITLE OF INVENTION: Species and methods of Use Thereof FILE REFERENCE: 2856.1001-007 CURRENT APPLICATION NUMBER: US/09/162,021B CURRENT FILING DATE: 1998-09-28 PRIOR APPLICATION NUMBER: PCT/US97/05031 PRIOR PILING DATE: 1997-03-27 PRIOR FILING DATE: 1997-03-27 PRIOR FILING DATE: 1997-03-27
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APPLICANT: Edward M. Brown
APPLICANT: Steven C. Hebert
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                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Materials and Methods for Immunocontraception NUMBER OF SEQUENCES: 59
                                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                   PRIOR APPLICATION DATA:
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nes 6; Conservative
                                                                                                                                                                                                                                                     COUNTRY: United States of America ZIP: 60606-6402
                                                                                                                                                                                                                                                                                         CITY: Chicago
STATE: Illinois
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 APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                      Joseph S.
 07/973,341
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5. 2.9e+02;
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 164 amino acids
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                   NFORMATION FOR SEQ ID NO:
                                                                    REFERENCE/DOCKET NUMBER: 32
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6653
                                                                                                                                                                                                                                                     APPLICATION NUMBER: ()
FILING DATE: 09-NOV-S
PRIOR APPLICATION DATA:
APPLICATION NUMBER: ()
                                                                                                                                                         FILING DATE: 09-NOV-92
ATTORNEY/AGENT INFORMATION:
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MEDIUM TYPE: Floppy disk
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ATTORNEY/AGENT INFORMATION:
SEQUENCE CHARACTERISTICS:
                                    TELEPHONE: 314,
TELEPHONE: 312/474-0448
                                                                                                                           NAME: Clough, David W. REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITY: Chicago
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ADDRESSEE: Borun
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REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
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                                                                                                                                                                                                 APPLICATION NUMBER:
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Podolski,
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FILING DATE: 07-JUNE->>
FILING DATE: 07-JUNE->>
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: 08/149,223
                                                                                                                                                                                                                                                                                                       SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Application US/08484158B
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Immunocontraception
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                                                                                           07/973,341
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Best Local Similarity luv.
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APPLICATION NUMBER: 08/149,223
FILING DATE: 11-NOV-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973,341
FILING DATE: 09-NOV-1992
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                           INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS
                                                                                                                      TOPOLOGY: 1i
                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 31 TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                          TELEFAX: 25-3856
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Harris Ph.D., Jeffrey D.
                                                                                                                                                                                                         TELEPHONE: 312/474-0448
                                                                                                                                                   TYPE:
                                                                                                                                                                                                                                                                        NAME: Clough, David REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                 CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE:
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                                                                                                                                                              ENGTH:
101 SSGENS 106
                          150 SSGENS 155
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Podolski,
                                                                                                                                     linear
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                                                                                                                                                                                                                                                                                     David W
                                                    3.1%; Score 6;
100.0%; Pred. No
tive 0; Mismat
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                                                     red. No. 3e
Mismatches
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                                ) DB 2; L...
No. 3e+02; O; Indels
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5. 3e+02;
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                                                                                                                                                                                                                                             US-08-458-731-45
                                                                                                                                                                                       Patent No. 6001599
GENERAL INFORMATION:
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Patent No. 5
                                                                                                                                                                                                                         Sequence 45,
                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS LENGTH: 164 amino acid
STREET: Chicago
CITY: Chicago
Illinois
                                                            APPLICANT: Harris Ph.D., Jeilrey J.
APPLICANT: Hsu, Kuang T.
APPLICANT: Podolski, Joseph S.
TITLE OF INVENTION: Materials and Methods for Immunocontraception
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 08
FILING DATE: 09-NOV-1993
APPLICATION NUMBER: 08/01
FILING DATE: 29-CAN-1993
PRIOR APPLICATION DATA:
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0
CURRENT APPLICATION DATA:
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CITY: Illinois
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                               Local Similarity hes 6; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Clough, David W. REGISTRATION NUMBER: 36, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEX:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 07
CLASSIFICATION:
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                                                E: Marshall, O'Toole, Gerstein, Murray & Borun 6300 Sears Tower, 233 South Wacker Drive
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Podolski,
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100.0%; Pred. No.
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COMPUTER READABLE FORM: MEDIUM TYPE: Floppy

COUNTRY: United States of America

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RESULT 50
US-08-149-223A-45

// MOLECULE TYPE: protein
US-08-458-731-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 45, Application US/08149223A Patent No. 6027727
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: PAtentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/149,223A
FILING DATE: 09-NOV-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/012,990
FILING DATE: 29-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION DATA:
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INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 164 amino acids
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CURRENT APPLICATION DATA:
APPLICATION UNMEER: US/08/458,731
FILING DATE: 09-NOV-1993
                                                                                                                                                                                                                        COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
                                                                                                                                                                                                                                                                                                    STREET: 6300 Sear
CITY: Chicago
STATE: Illinois
                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Heu, Kuang T.
APPLICANT: Podolski, Joseph S.
TITLE OF INVENTION: Materials and Methods for Immunocontraception
NUMBER OF SEQUENCES: 59
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Local Similarity 100.0%; Pred. No. 3e-
hes 6; Conservative 0; Mismatches
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REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 31745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Ploppy diek
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                    COUNTRY: United States of America ZIP: 60606-6402
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TOPOLOGY: linear
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Search completed: January 28, 2004, 18:24:24 Job time : 49 secs
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Best Local Similarity 100
Matches 6; Conservative
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 164 amino acids
                                                                                                                                                                       TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: pro
                                                                                                                                                                                                                                                                                                                    FILING DATE: 09-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Clough, David W.
REGISTRATION NUMBER: 36,
                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION: TELEPHONE: 312/474-6653
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                                                                                                                                                                                      linear
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Maximum DB seq length: 200000000
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4: /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1983.DAT:*
5: /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1985.DAT:*
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11: /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1997.DAT:*
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13: /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1999.DAT:*
14: /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1995.DAT:*
15: /SIDS1/gcgdata/geneseq/geneseqp-emb1/AA1995.DAT:*
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Novel human diagno
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AAB26968
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Novel isolated nucleic acid comprising coding sequence for an immunogenic Cryptosporidium parvum antigenic polypeptide useful as vaccine components for treating or preventing C. parvum infection:
                                                                                                                         Simonsen
                                                                                                                                                                                                                                                Cryptosporidium parvum
                                                                                                                                                   15-JUN-2000; 2000US-212083P
                                                                                                                                                                              20-DEC-2001.
                                                                                                                                                                                            WO200196370-A2
                                                                                                                                                                                                               Modified-site
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                                                                                                           2002-139704/18.
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                                                                                                                                                                                                                            Location/Qualifiers 36..38
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The present sequence comprises immunogenic Cryptosporidium parvum antigenic polypeptide 2 (AG2), as predicted from the incomplete open reading frame given in ABA91278. The predicted AP2 protein has a mol.wt. of 21.8 kDa and a pI of 6.23. The invention relates to the discovery of novel genes encoding C. parvum antigenic polypeptides AG1 and AG2, the characterisation of these proteins, and antibodies that recognise epitopes of AP1 and AP2. Also

The invention relates to avilamycin derivatives (I) with antibacterial, virucide, protozoacide and fungicide activity. (I) are useful for treatment of infections (bacterial, viral, protozoal or fungal), in hum or veterinary medicine, particularly where caused by Staphylococcus aureus. (I) are more hydrophilic than known avilamycins. The present

from the

Streptomyces

in human

or veterinary medicine, particularly where aureus. (I) are more hydrophilic than known sequence is that of an avilamycin synthesis enzyme

Claim

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Fig

2A; 61pp;

English.

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RESULT 2
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                                                                                                     Example 1; Page 68-301; 319pp; German.
                                                                                                                                New avilamycin derivatives, useful nucleic acid encoding avilamycin sy
                                                                                                                                                                                                                           Weitnauer G, Muehlenweg
                                                                                                                                                                                                                                                                                        25-FEB-2001; 2001DE-1009166
                                                                                                                                                                                                                                                                                                                    24-AUG-2001; 2001WO-EP09815
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                                                                                                                                                                                                                                                                                                                                                                                                          Streptomyces viridochromogenes
                                                                                                                                                                                                                                                                                                                                                                                                                                      Avilamycin; antibacterial; virucide; protozoacide; fungicide; infection; medicine; Staphylococcus aureus; biosynthetic gene cluster; enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Streptomyces viridochromogenes Avi gene cluster polypeptide frame 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-FEB-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           provided are recombinant vectors, host cells and methods of
                                                                                                                                                                                                                                                          (COMB-) COMBINATURE BIOPHARM AG
                                                                                                                                                                               2003-018650/01.
)B; ABZ37516.
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Matches 7; Conserv
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                                                                                                                                                                                                                                  The extended cDNAs can be used to express secreted proteins or them or to obtain antibodies capable of binding to the secreted proteins. They may also be used in diagnostic, forensic, gene ti and chromosome mapping procedures. Uses also include design of expression vectors and secretion vectors.
                                                                                                                                                                                                                                                                                                                                                   AAY36129-Y36222 represent novel human secreted proteins encoded by the extended cDNA sequences represented in AAX97813-X97906. The proteins of the invention have cytostatic, thrombotic and osteopathic activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Extended cDNAs encoding secreted proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB; AAX97819
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13-APR-1998
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Matches 7; Conser
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13-NOV-1997;
17-DEC-1997;
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                      Human; open reading frame; ORFX; gene therapy; cancer; cirrhosis; hyperproliferative disorder; psoriasis; benign tumour; haemorrhage; degenerative disorder; osteoarthritis; neurodegenerative disorder;
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13-APR-1998;
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                                                                                                                    ORFX protein sequence SEQ ID NO:16964.
                                                                                                                                                                                                                                                                                                                                                                                           59
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                                                                                                                                                                                                                                                                                                                                                                                           NKISLES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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97US-0069957
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100.0%; Pr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 7; DB 2; Pred. No. 36; 0; Mismatches
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36;
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diabetes mellitus; systemic

lupus erythematosus;

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RESULT 6
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AC ABU5
XX
AC ABU5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sequences can be used in gene therapy. ORFX sequences can be used in the treatment of cancer, hyperproliferative disorders, cirrhosis of liver, psoriasis, benign tumours, keloid, degenerative disorders, haemorrhage, osteoarthritis, neurodegenerative disorders, disorders related to organ transplantation, cardiovascular diseases, diabetes mellitus, systemic lupus erythematosus, hypertension, hypothyroidism, cholesterol ester storage disease, various immune deficiencies and disorders, infectious diseases, autoimmune timmune deficiencies and disorders, infectious diseases, autoimmune inflammatory eye disease. ORFX proteins are also useful for treating burns, incisions, ulcers, for treating osteoporosis, bone degenerative disorders, or periodontal disease, and for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues and conditions resulting from systemic cytokine damage.
                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
17-MAR-2003
                                                                ABU55703;
                                                                                                                                 ABU55703 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes substantially purified human proteins (referred to as open reading frame, ORFX, where X is 1-11491 (see Table in the specification). ABN15762 to ABN27352 encode the human ORFX proteins given in ABP00010 to ABP11500. ORFX proteins are useful for treating or preventing a pathology associated with an ORFX-associated disorder in humans, and in the manufacture of a medicament for treating syndrome associated with ORFX-associated disorder. ORFX polynucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel human polypeptides and polynucleotides useful for diagnosing, preventing and treating cardiovascular disease, neurodegenerative, hyperproliferative disorders and autoimmune disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hypertension; hypothyroidism; cholesterol ester storage disease; immune deficiency; immune disorder; infectious disease; autoimmune disorder; rheumatoid arthritis; autoimmune thyroiditis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-MAY-2000; 2000US-206132P.
29-AUG-2000; 2000US-228716P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; SEQ ID 16964; 1037pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-MAY-2001; 2001WO-US10836
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            specification,
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    The sequence data for this patent did not
scification, but was obtained in electronic for
ftp.wipo.int/pub/published_pct_sequences.

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DB; ABN24243.
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49 ILKNIST 55
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Matches Query Match Best Local

Similarity
7; Conserv

Conservative

100.0%;

Score 7; ; Pred. No. 0

DB 24;

Length 75; Indels

Mismatches

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Gaps

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Sequence

75

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CC a transgenic plant comprising the vector, seed/pollen and a harvestable CC part of propagation material from the transgenic plant; a host cell CC comprising the GREP nucleic acid, an antisense molecule consisting of CC 14-100 nucleotides targeted to the GREP signature nucleotide consisting of CC 14-100 nucleotides targeted to the GREP signature nucleotide recognises a GREP or its fragment, a method for altering growth and/or activity of a plant cell/storage organ comprising modulating the CC servel and/or activity (comprising administering levels of a GREP or OspSK, a method for downregulating levels of a GREP or OspSK gene product or its activity (comprising administering or exposing GREP or OspSK gene product cantibodies or gene products to cells, tissues or organs of a plant) CC a method for identifying an allele with desired features of a gene CC encoding a GREP which comprises isolating alleles for a GREP and CC with desired features which comprises the use of genes encoding GREP, cor sequences located in the genome in the neighbourhood of GREP and selecting an allele of GREP and selecting an allele of GREP alleles by markers for different GREP alleles and selecting specific CC GREP alleles by markers for different GREP alleles and selecting specific CC growth characteristics of a plant or its organs and tissues, useful for a wide application in agricultural and horticultural practices, and in vitro plant cell and tissue culture. The present sequence is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         regulating protein (GREP), where the protein conforms to the GREP signature sequence appearing as ABU55722, and the GREP proteins. Also included are a vector comprising a GREP nucleic acid, or a vector encoding the rice growth regulating polypeptide OspSK (phytosulphokine-alpha) where the growth regulating proteins regulate growth and/or development response in intact plants, a GREP transgenic plant,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated GREP nucleic acids and polypeptides controlling or modifying the growth characteristics of a plant, useful for a wide application in agricultural and horticultural practices, and in vitro plant cell and tissue culture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a new isolated nucleic acid encoding a growth reculating protein (GREP), where the protein conforms to the GREP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ss; plant; growth regulating protein; PSK; phytosulphokine-alpha; transgenic; marker-assisted breeding; agriculture; horticulture.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rice growth regulating protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2003-093023/08
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dillen W,
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CC or fer the sequence data for this patent did not appear in the printed CC are fer and the printed of the prin
                                                                                                                  Best
                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutation responsible for genetic disorders or other traits and to assess biodiversity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Drmanac RT, Liu C,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; chromosome mapping; gene mapping; gene therapy; forensic food supplement; medical imaging; diagnostic; genetic disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel human diagnostic protein #7578
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                                                                                                                                                                                        Sequence
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23-AUG-2000; 2000US-0649167.
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                                                                                                                  Local
                                                                                                                                                                                                                                   ftp.wipo.int/pub/published_pct_sequences.
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DB; AAS71774.
25
                                                                                              Similarity
7; Conserv
CFEKNEA 31
                                            CFEKNEA 90
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                                                                                         3.6%; Score 7; DB 22; llarity 100.0%; Pred. No. 40; Conservative 0; Mismatches
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RESULT 8
ABG18998
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                                                                                                                                                                  Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABG18998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated polynucleotide and encoded polypeptides, useful diagnostics, forensics, gene mapping, identification of mutatesponsible for genetic disorders or other traits and to asset the control of th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-639362/73.
N-PSDB; AAS83185.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       31-MAR-2000; 2000US-0540217
23-AUG-2000; 2000US-0649167
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-FEB-2002
                                                                                                                                                                                                                                                                                                                               Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (HYSE-) HYSEQ INC.
25
                                                                                   84 CFEKNEA 90
                                                                                                                                                             Similarity
7; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID No 49357; 103pp; English.
                                                                                                                                                                                                                                                                                                                                    81
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                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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                                                                                                                                                             3.6%; Score 7; DB 22;
100.0%; Pred. No. 40;
tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ϋ́
                                                                                                                                                                                                                                                     Length 81;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  forensic;
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RESULT 9

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AAW75205
ID AAW7
XX
AC AAW7
XX
AC AAW7
XX
AC Humm
XX
AC AAW7
A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present sequence is a polypeptide encoded by one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. The 5' ESTs CC were prepared from total human RNAs or polyA+ RNAs derived from 30 CC different tissues. EST sequences usually correspond mainly to the 3' CC untranslated region (UTR) of the mRNA because they are often obtained CC from oligo-dT primed cDNA libraries. Such ESTs are not well suited for CC isolating cDNA sequences derived from the 5' ends of mRNAs and even in CC those cases where longer cDNA sequences have been obtained, the full 5' CC UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' CC ends and can therefore be used to obtain full length cDNAs and genomic CDNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and CC chromosome mapping procedures. They are used to obtain upstream CC regulatory sequences and to design expression and secretion.
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                                                                                                                                                                                                                                                                                                                            RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 7
Human; secreted protein; fusion protein; gene therapy; protein therapy; diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia; developmental abnormality; foetal deficiency; blood; allergy; renal;
                                                                                                                                                               29-JAN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New nucleic acid that is a 5' expressed sequence tag (5' EST) i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene therapy;
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                                                                                                                                                                                                                   AAW75205
                                                                                                                                                                                                                                                                       AAW75205 standard; Protein; 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 13; SEQ ID 5596; 71pp + CD-ROM; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  diagnostic, forensic, gene therapy and chromosome mapping procedures
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             144 NKISLES 150
                                                                                                           secreted
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                                                                                                                                                                                                                                                                                                                                                                                                         35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAC01521.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       84 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            larity 100.0%;
Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                               (first
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                                                                                                        protein encoded by gene 10 clone HJTAA17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        expressed
                                                                                                                                                               entry
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Duclert
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 7; DB 2; Pred. No. 42; 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 84;
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        RESULT 11
AAB43362
ID AAB43
XX
AC AAB43
XX
DT 08-FE
XX
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AAB43362; 08-FEB-2001

(first entry)

AAB43362 standard;

Protein; 100

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В
                                                          Matches
                                                                       Query Match
Best Local :
                                                                                                                                                          This sequence represents a secreted human protein encoded by the gene clone detailed in the descriptor line. The gene can be used to generate fusion proteins by linking to the gene to a human immunoglobulin Fc portion (e.g. AAV4277) for increasing the stability of the fused protein as compared to the human protein only.

The invention relates to 28 novel genes and their fragments (nucleic acid sequences: AAV44286-V34325; amino acid sequences AAW75196-W75235) which are useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. Also, pathological conditions can be diagnosed by determining the amount of the new polymucleotides in a sample or by determining the presence of mutations in the new polymucleotides, based on which tissues they are most highly expressed in polymucleotides, based on which tissues they are most highly expressed in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma; inflammation; ischaemic shock; Alzheimer's disease; restenceis; ALDS; cognitive disorder; schizophrenia; prostate; obseity; osteoclast; thymus; osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Page 159;
                                                                                                                                                                                                                                                                                                                                                                                               Isolated human poly:nucleotide(s) encoding secretory peptide(s) used to develop products for the diagnosis and treatment of e.g. inflammation, cancers, CNS disorders or immune system disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ferrie AM, I
Li H, Li Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-SEP-1997;
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14-MAR-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm
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                                                                                                                                               (see AAV34286 for
                              144 NKISLES 150
 53
                                                        l Similarity
7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HUMAN GENOME SCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Young
 NKISLES
                                                                                                                  100 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fischer CL, Gentz
, Moore PA, Rosen
                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Æ,
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97US-0050934.
97US-0048970.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97US-0048100
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97US-0040762
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            98WO-US04858
 59
                                                                                                                                                 described uses)
                                                                                                                                                                                                                                                                                                                                                                     201pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zeng
                                                                       3.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INC
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                                                           0,
                                                                       Score 7;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CA,
                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Greene JM, Kyaw H;
Ruben SM, Soppet DR.
                                                                         DB 1
0. 49;
                                                                                        19;
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                                                                                       Length 100;
                                                           0,
                                                           Gaps
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Human

open reading

ORFX ORF3126 polypeptide sequence SEQ ID NO:6252

frame; ORFX; detection; cytostatic; hepatotropic;

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                                                                                                                                                                                                                                                                                                                cc antipsoriatic; antiparkinsonian; nootropic; neuroprotective; costeopathic; anticonvulsant; antiarthritic; immunosuppressant; ci immunostimulant; cardiant; thrombolytic; cosquiant; vasotropic; cc immunostimulant; cardiant; thrombolytic; cosquiant; vasotropic; cc antiinflammatory; antibacterial; antiviral; antifungal; antirheumatic; antihyroid; and antianaemic. The sequence can be used for determining cc antihyroid; and antianaemic. The sequences can be used for determining the presence of or predisposition to, or preventing or treating cc pathological conditions associated with an ORFX-associated disorder. The nucleic acids can be used to express ORFX proteins in gene therapy certors. The proteins and nucleic acids may be used to treat concers, cordiferative disorders, neurodegenerative disorders, osteoarthritis, cc proliferative disorders, neurodegenerative disorders, osteoarthritis, craft vs host disease, cardiovascular disease, diabetes mellitus, the proteins of the proteins, cholesterol ester storage, systemic lupus crythematosus, severe combined immunodeficiency (SCID), AIDS, viral, altoriam and cartillariam and accomplished the proteins and antipartic antipartic
                                                                                 Matches
                                                                                                           Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397, which represent the human ORFX open reading frames 1 to 3161. The ORFX which represent the human ORFX open reading frames 1 to 3161. The ORFX sequences have activities such as: cytostatic; hepatotropic; vulnerary;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel nucleic acids and peptides derived from open reading useful for treating e.g. cancers, proliferative disorders, neurodegenerative disorders and cardiovascular disease -
                                                                                                                                                                                                                                         allergies, aplastic anaemia, burns, wounds, bone and cartilage damage nocturnal haemoglobinuria, antiinflammatory disease; to enhance coagulation; to inhibit thrombosis; and as a contraceptive.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 11; Page 5440;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      05-APR-1999;
30-MAR-2000;
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02-APR-1999;
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                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-MAR-2000; 2000WO-US08621.
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DB; AAC77571.
151 SGENSIS 157
                                                                            l Similarity
7; Conserv
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99US-0127636.
99US-0127728.
2000US-0540763.
                                                                                 Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; immunodeficiency; X-linked agammaglobulinaemia; septic shock; autoimmune disorder; rheumatoid arthritis; multiple sclerosis; cancer; Grave's disease; diabetes mellitus; haematopoietic disorder; stroke;
                                                                                                       Novel human secreted polypeptides and polynucleotides for diagnosing, preventing, treating immune, hyperproliferative, cardiovascular, neurological, reproductive disorders and identifying modulators of therapeutic use
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Protein
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                                                                                  Claim 11;
                                                                                                                                                                   WPI; 2002-598780/64.
N-PSDB; AAD44645.
                                                                                                                                                                                                      Ferrie
                                                                                                                                                                                                                             Ruben
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                                                                                                                                                                                                                                                                                                              (KYAW/) KYAW H.
                                                                                                                                                                                                                                                      WEIY/)
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WEI Y.
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SOPPET D R.
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Gentz RL,
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Wei Y,
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, Moore PA,
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lg PE, Greene
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AAD44636-AAD44676 represent cDNAs corresponding to 28 human secreted protein genes, and AAE26959-AAE26999 represent the proteins they encode. AAE27000-AAE27025 represent human secreted protein fragments or their variants. The secreted proteins and genes are useful for preventing, treating or ameliorating medical conditions, e.g., by protein or gene therapy. Specific uses are described for each of the 28 genes, based

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CC including septic shock, sepsis, reperfusion injury, inflammatory bowel CC disease, Crohn's disease, haematopoietic disorders, respiratory CC disorders e.g., asthma and allergy, gastrointestinal disorders e.g., CC inflammatory bowel disease), cancers e.g., gastric, ovarian, lung, CC inver, bladder and breast), central nervous system (CNS) disorders e.g., CC ischaemic brain injury and/or stroke, neurodegenerative disorders e.g., CC parkinson's disease and Alzheimer's disease, AIDS-related dementia and CC prion disease, cardiovascular disorders e.g., myocarditis, arrhythmias, CC atherosclerosis, inflammatory disorders e.g., hepatitis, gout, trauma, CC pancreatitis, sarcoidosis and allogenic transplant rejection, blood-crelated disorder (thrombosis, arterial thrombosis, atherosclerosis), CC hyperproliferative disorders, respiratory disorders e.g. rhinitis, CC sinusitis, tonsilits, lung cancer, allergic disorders, pneumonitis, CC sinusitis, tonsilits, acute glomerulonephritis, neurological diseases, CC liver disorders, endocrine disorders e.g., hyperthyroidism, Addison's CC disease, hyperpituitarism, infectious diseases and reproductive system CC disease, proper content on the inventions of the present sequence represents a human CC generated protestin of the inventions.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tissue regeneration; immunosuppressive; antiproliferative; cytostatic; cardiant; vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; fungicide; ophthalmological; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; secreted protein; autoimmune disease; hyperproliferative disorder; rheumatoid arthritis; neoplasm; cerebrovascular disorder angiogenesis; cerebral ischaemia; cardiovascular disorder; nervous system disorder; cardiac arrest; Alzheimer's disease; ocular disorder; wound healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             e.g., X-linked agammagiopullinemine, but of the combined immunodeficiencies, autoimmune disorders e.g., systemic lupus erythematosus, rheumatoid arthritis, multiple sclerosis, autoimmune erythematosus, rheumatoid arthritis, multiple sclerosis, autoimmune erythematosus, rheumatoid arthritis, multiple sclerosis, autoimmune erythematosus, rheumatoid arthritis multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis multiple sclerosis, autoimmune erythematosus, rheumatoid arthritis, multiple sclerosis, autoimmune erythematoid arthritis erythema
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             on the tissues in which they are most highly expressed and include developing products for the diagnosis or treatment of immunodeficiencies, e.g., X-linked agammaglobulinaemia, B cell immunodeficiencies, severe
02-FEB-2001; 2001US-265583P
                                                                                                            11-MAY-2001; 2001US-0853161.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Protein
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                                                                                                                                                                                                                                                                                                                                                      US2002076756-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        encoded secreted protein HJTAA17, SEQ ID NO:61.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /label= Signal_peptide
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100.0%; F1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Mature human secreted protein"
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s; Pred. No. 49;
0; Mismatches
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o. 49;
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                                                                                                                                                                                                                                                                                                                                                                                  cc and their corresponding secreted proteins are useful for preventing, their corresponding secreted proteins are useful for preventing, cd treating or ameliorating medical conditions, e.g., by protein or gene ct therapy. Secreted protein sequences of the invention are useful for the cd diagnosis or treatment of disorders such as autoimmune diseases (e.g. cd diagnosis or liver), cerebrovascular disorders (e.g. cerebral ischaemia, cd angiogenesis), cardiovascular disorders (e.g. cardiac arrest), nervous cc angiogenesis), cardiovascular disorders (e.g. cardiac arrest), nervous cc angiogenesis), cardiovascular disorders (e.g. cardiac arrest), nervous cc system disorders (e.g. Alzhehmer's disease), infections caused by fungi, bacteria and viruses and ocular disorders (e.g. corneal infection). The cc polypeptides can also be used to aid wound healing and epithelial cell croliferation, to prevent skin aging due to sunburn, to maintain organs components automators be used as food cadditives or preservative to increase or decrease storage capabilities, cardiovascular injud, protein, carbohydrate, vitamins, minerals, cofactors and other nutritional components. The present sequence represents a human
                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ruben SM,
Soppet DR,
Ferrie AM;
Secreted protein; immunodeficiency; multiple sclerosis; severe combined immunodeficiency; autoimmune disorder; cancer; rheumatoid arthritis; diabetes mellitus; haematopoietic disorder;
                                                        Human secreted protein gene 10, protein.
                                                                                                                      ABU64979
                                                                                                                                                                                                                                                                                                                                            Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acid molecules encoding 28 human secreted proteins, useful for diagnosing, preventing, treating or ameliorating medical conditions and as food additives or preservatives •
                                                                                       15-MAY-2003
                                                                                                                                                ABU64979 standard; Protein; 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein genes, and AAE27097-AAE27137 represent the AAE27138-AAE27164 represent human secreted protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 11; Page 177-178; 209pp; English
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MOORE P A.

YOUNG P E.

GREENE J M.

FERRIE A M.
                                                                                                                                                                                                                                                                                 7; Conserv
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                                                                                                                                                                                                                                                                                                                                                                         protein of the invention.
                                                                                                                                                                                                                            NKISLES
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Gentz RL,
                                                                                                                                                                                                                                                                                3.6%;
nilarity 100.0%;
Conservative 0
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                                                                                         entry)
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Wei Y,
                                                                                                                                                                                                                                                                                   Score 7; DB 2; Pred. No. 49; 0; Mismatches
                                                                                                                                                                                                                                                                                      0
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, Moore PA,
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o. 49;
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                                                                                                                                                                                                                                                                                                                Length 100;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            proteins they encode fragments. The genes
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The invention relates to an isolated polypeptide comprising an amino acid sequence at least 95% identical to sequence of 28 human secreted proteins, their fragment, polypeptide domain, epitope, secreted form, variant, allelic variant, or species homologue, or the encoded sequence included in ATCC 97921 and 97922. Also included are the encoding nucleic acids, recombinant vectors, host cells, antibodies, and genes. The proteins and nucleic acids are useful for diagnosing, preventing, treating, prognosing or ameliorating a medical condition e.g. immunodeficiencies, severe combined immunodeficiencies, autoimmune disorders (e.g. systemic crythematosus, rheumatoid arthritis, multiple
                                                                                                                                                                                                                                                                                                                                   Ruben SM,
Soppet DR,
Ferrie AM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             inflammatory condition; septic shock; inflammatory bowel disease; Crohn's disease; respiratory disorder; asthma; allergy; stroke; gathointestinal disorder; central nersus system disorder; stroke; ischaemic brain injury; neurodegenerative disorder; Parkinson's disease; ischaemic brain injury; neurodegenerative disorder; atherosclerosis; blood-related disorder; thrombosis; atherosclerosis; renal disorder; blood-related disorder; thrombosis; atherosclerosis; renal disorder; hyperproliferative disorder; acute glomerulomephritis; Addisorder; hyperproliferative disorder; acute glomerulomephritis; Addisorder; endometriosis; infectious disease; pancreatic disorder; vaccine; wound repair; angiogenesis; lymphatic disorder; hair loss; body weight; wound repair; angiogenesis; lymphatic disorder; hair loss; body weight;
                                                                                                                                                                                                                           New human secreted polypeptides and polynucleotides for diagnosing, prognosing, preventing and treating immune, hyperproliferative, liv kidney, reproductive disorders and for identifying modulators of
                                                                                                                                                                                                                                                                                        WPI; 2003-310989/30.
N-PSDB; ABX96975.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-FEB-2001;
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                                                                                                                                                                                                                therapeutic use
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GENTZ R L.
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Gentz RL,
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97US-068368P.
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97US-048970P.
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97US-040762P.
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                                                                                                                                                                                 209pp; English.
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Moore
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PA, Young PE, Greene
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RESULT 15
AAY65396
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the specification. They also useful as a vaccine adjuvant. Further they are useful to enhance or inhibit complement mediated cell lysis, for stimulating wound and tissue repair, angiogenesis, and the repair of vascular or lymphatic diseases or disorders. They are also useful to prevent hair loss, to modulate mammalian characteristics such as body height, weight, hair colour, and to increase or decrease storage capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, cofactors or other nutritional components. The proteins are also useful for identifying binding partners. The present sequence represents a secreted protein of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Goodpasture's syndrome, Grave's disease, diabetes mellitus, dermatitis), haematopoietic disorders, inflammatory conditions (e.g. septic shock, sepsis, reperfusion injury, inflammatory bowel disease, Crohi's disease),
                                                                                                                                                                                                                                                                                                                                                                       gene therapy; chromosome mapping; upstream regulatory sequence;
forensic; location; development; protein synthesis; stability;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human 5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAY65396 standard; Protein; 101 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                         Dumas Milne Edwards
                                                                                                                                   09-APR-1998;
28-APR-1998;
                                                                                                                                                                                            09-APR-1999;
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                                                                                                                                                                                                                                                                          WO9953051-A2
                                                                                                                                                                                                                                                                                                                 Homo
                                                                                              (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                    regulation; identification.
                                                                                                                                                                                                                                                                                                             sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 144 NKISLES 150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            53
                                                                                                                                                                                                                                                                                                                                                                                                                5' EST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                   EST related polypeptide SEQ ID NO:1557.
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                                                                                                                                   98US-0057719
98US-0069047
                                                                                                                                                                                            99WO-IB00712
                                                                                                                                                                                                                                                                                                                                                                                                              expressed sequence tag; secreted protein; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3.6%; Sur
100.0%; Pr/
0;
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                                                       Duclert A,
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; Pred. No.
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                                                         Giordano
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N-PSDB; AAZ43010

WPI; 2000-038446/03

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RESULT 16
AA736137
ID AA736
XX AA736
AC AA736
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XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 7
                               N-PSDB; AAX97821
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                                                         WPI; 1999-347472/29
                                                                                                                                                                                                                                                                                                                                                                       04-SEP-1998;
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                                                                                                              Bougueleret L,
                                                                                                                                                                                                                                                         09-FEB-1998;
13-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                              13-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim
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                                                                                                                                                                                                                                                                                                                                             13-NOV-1997;
                                                                                                                                                                        (GEST )
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                                                                                                                                                                        GENSET
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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98US-0081563.
98US-0096116.
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97US-0066677
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                                                                                                                Duclert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human; cytostatic; thrombotic; osteopathic; forensic; therapy; chromosome mapping; secretion vector.
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100.0%; Pr
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                                                                                                                Dumas Milne Edwards J;
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50;
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RESULT 17
AAY36184
ID AAY366
AC AAY36
AAY37
AC AAY36
AAY36
AAY36
AAY37
AC AAY36
AAY37
AC AAY36
AAY37
AC AAAY37
AC AAY37
AC AAY37
AC AAY37
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AC AAY37
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Best Local S
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                                                                                                                                                           AAY36129-Y36222 represent novel human secreted proteins encoded by the extended cDNA sequences represented in AAX97813-X97906. The proteins of the invention have cytostatic, thrombotic and osteopathic activity. The extended cDNAs can be used to express secreted proteins or parts o
                                                    proteins. They may also be used in diagnostic, forens and chromosome mapping procedures. Uses also include expression vectors and secretion vectors.
                                                                                                         of the invention have cytostatic, thrombotic and osteopathic ac
The extended CDMAs can be used to express secreted proteins or j
them or to obtain antibodies capable of binding to the secreted
proteins. They may also be used in diagnostic, forensic, gene to
                                                                                                                                                                                                                                                                                             Claim 7; Page 290; 307pp; English.
                                                                                                                                                                                                                                                                                                                                                       Extended
                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1999-347472/29.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bougueleret L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13-NOV-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Secreted protein; human; cytostatic; thrombotic; osteopathic; f diagnostic; gene therapy; chromosome mapping; secretion vector.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        23-SEP-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        09-FEB-1998;
13-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human secreted protein #56.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAY36184 standard; protein; 106 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Extended cDNAs encoding secreted proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GEST )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                           AAX97868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENSET
                                                                                                                                                                                                                                                                                                                                                    cDNAs encoding secreted proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NKISLES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
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97US-0069957.
98US-0074121.
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98US-0096116
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Duclert A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           65
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3.6%; Sur
100.0%; Pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Dumas Milne Edwards
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 7; DB 2; Pred. No. 52; 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB
52;
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                                                                                   sic, gene therapy
design of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
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Sequence

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RESULT 18
AAY35987
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Best Local Similarity
Matches 7; Conserv
                                                Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                         This sequence is encoded by an extended human secreted protein coding sequence of the invention. The secreted proteins can be used in treating or controlling a variety of human conditions. The secreted proteins may act as cytokines or may affect cellular proliferation or differentiation or may act as immune system regulators, haematopoiesis regulators, tissue growth regulators, regulators of reproductive hormones or cell movement or have chemotactic/chemokinetic, receptor/ligand, anti-inflammatory or tumour inhibition activity. The DNAs can be used in forensic procedures to identify individuals or in disgnostic procedures to identify individuals or in disgnostic procedures to identify individuals or the extended cDNAs. They are also useful for constructing a high resolution map of the human chromosomes. They can also be used for gene therapy to control or treat genetic diseases.
                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-385906/32.
N-PSDB; AAX97671.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Secreted protein; human; cytokine; cellular proliferation; cell movement; cellular differentiation; immune system regulator; anti-inflammatory; haematopoleeis regulator; tissue growth regulator; tumour inhibitor; reproductive hormone regulator; chemotaxis; chemokinesis; gene therapy;
                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                  Claim 9; Page 264; 516pp; English
                                                                                                                                                                                                                                                                                                                                             New isolated human secreted
                                                                                                                                                                                                                                                                                                                                                                                                             Bougueleret L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                09-FEB-1998;
13-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17-DEC-1998; .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Extended human
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17-DEC-1997;
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                       144 NKISLES 150
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NKISLES
                                                                                                      106 AA;
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                                                   Conservative
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97US-0069957.
98US-0074121.
98US-0081563.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     secreted protein sequence, SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                              Duclert
                                             3.6%; 500
100.0%; Pr
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                                                Score 7; DB 2
1; Pred. No. 52;
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                            proteins
                                                                                                                                                                                                                                                                                                                                                                                                             Dumas Milne Edwards
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52;
                                                              DB 2
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                                                                           Length 106;
                                                   Indels
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RESULT 19
ABB97399
ID ABB97
XX ABB97
XX ABB97
XX ABB97
XX YAMB97
XX YAMB97
XX YAMB97
XX YAMB97
XX HUMAN
XX ANTLLI
XW ANTLLI
XX YAMB97
PF 10-SE
XX ANTLLI
PF 10-SE
XX HYSE
PF 11-SE
XX HYSE
XX WPI;
PR WP
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                                                                                                                                                                                                                                                       RESULT 20
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Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention provides the protein and coding sequences of 444 novel human proteins. These were isolated from expressed sequences tags (ESTS). They can be used to stimulate cell growth, to regulate haematopoiseis e.g. to treat aplastic anaemia, to help tissue regrowth e.g. in burn treatment, to regulate the immune system e.g. to treat multiple sclerosis, to regulate activin or inhibin e.g. to treat infertility, to regulate haemostasis or thrombolysis e.g. to treat stroke and cancer, to screen for drugs, to treat inflammatory conditions e.g. rheumatoid arthritis, and to treat nervous system disorders e.g. parkinson's disease. The present sequence is a protein of the invention.
                                             Human DITHP polypeptide #79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rang YT, Liu C,
Xue AJ, Yang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; antianaemic; vulnerary; antiinflammatory; immunomodulato; antiinfertility; cerebroprotective; cytostatic; rheumatic; gene neuroprotective; antiparkinsonian; protein therapy; EST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABB97399;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   An isolated polynucleotide for treating diseases associated with encoded polypeptide such as cancer and multiple sclerosis -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2002-292408/33.
N-PSDB; ABN32585.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expressed sequence tag.
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                                                                                                   30-JUL-2002
                                                                                                                                                                                                       ABG60021 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             106 AA;
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                                                                                                (first entry)
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Wehrman
                                                                                                                                                                                                       Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              3.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 7; ; Pred. No.
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RT;
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o. 52;
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Human; DITHP; diagnostic and therapeutic polypeptide; bone; testis; skin;

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The invention relates to human diagnostic and therapeutic (dithp)

polynucleotides and their associated polypeptides (DITHP polypeptides).

The sequences of the invention are used in the treatment and diagnosis of the relative disorders (e.g. atheroselerosis, cirrhosis), cancers (e.g. tumours of the adrenal gland, bone, bone marrow, brain, breast, cervix, kidney, lung, ovary, pancreas, prostate, skin, spleen, testis or thymus), autoimmune/inflammatory disorders (e.g. asthma, bronchitis, psoriasis, osteoporosis), viral infections, bacterial infections, fungal infections, parasitic infections, developmental disorders (e.g. anaemia, epilepsy), seizure disorders (e.g. thrombosis, aneurysm), metabolic disorders (e.g. obesity, diabetes), neurological disorders (e.g. stroke, amyotrophic lateral sclerosis, multiple sclerosis), gastrointestinal amyotrophic lateral sclerosis, multiple sclerosis), gastrointestinal disorders (e.g. ulcerative colitis, lysinuria) and transport disorders (e.g. myotonic dystrophy, catatonia, peripheral neuropathy). Sequences (e.g. myotonic dystrophy, catatonia, peripheral neuropathy). Sequences
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05-SEP-2000;
05-SEP-2000;
05-SEP-2000;
05-SEP-2000;
06-SEP-2000;
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                                                                                                                                                                                                                                                                                                                                       isolated polynucleotide useful in
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Yu JY, Wright RJ,
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2000US-229749P.
2000US-229750P.
2000US-229750P.
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2000US-230515P.
2000US-230517P.
2000US-230519P.
2000US-2305167P.
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u JY, Wright RJ, Gietzen D, Liu TF, Yap Pse
Bradley DL, Rohatgi SD, Harris B, Roseber:
Peralta CH, David MH, Panzer SR, Flores V,
Chen AJ, Chang SC, Au AP, Inman RR;
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                                                                                                                                                                                                                                                                                                                                       diagnostics and
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TF, Yap PE, I
B, Roseberry i
                                                                                                                                                                                                                                                                                                                                         therapeutics
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RESULT 21
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29-MAR-2001; 2001US-280067P.
29-MAR-2001; 2001US-280068P.
16-MAY-2001; 2001US-291280P.
17-MAY-2001; 2001US-291829P.
17-MAY-2001; 2001US-291849P.
19-JUN-2001; 2001US-299728P.
20-JUN-2001; 2001US-299776P.
20-JUN-2001; 2001US-300001P.
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Dufour GE, Hillim...
Daughtery SC, Dam TC,
Daughtery SC, David MH,
Peralta CH, David MH,
The invention relates to novel human diagnostic and therapeutic polynucleotides designated dithp (ACC46080-ACC46749) and to their encoded proteins (DITHP; ABR41136-ABR41812). The invention also relates to polynucleotide sequences at least 90% identical to the dithp cDNA sequences of the invention; recombinant vectors, host cells and transgenic organisms comprising a dithp nucleic acid sequence; the recombinant production of DITHP proteins; antibodies specific for DITHP proteins; microarrays comprising dithp nucleic acid sequences; methods of detecting dithp nucleotide and protein sequences; methods of screenin
                                                                                                                                                                                                                                                                                                                          Novel human diagnostic and therapeutic polypeptide useful for identifying test compound which specifically binds to a polypeptide encoded by human diagnostic and therapeutic polynucleotide, and to induce antibodies -
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                                                                                                                                                                                                                                                                        Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INCYTE GENOMICS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hillman JL,
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Liu TF, Nguyen DA,
Lewis SA, Chen AJ,
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                                                                                                                                                                                                                                                                        591pp; English
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Pred. No.
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O, Yap PE, Amsl
DA, Kleefeld Y,
AJ, Panzer SR,
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Gerstin
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RESULT 22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 7
                                                                                                                                                                                     New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutation responsible for genetic disorders or other traits and to assess biodiversity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           31-MAR-2000; 2000US-0540217.
23-AUG-2000; 2000US-0649167.
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                                                                                                                Claim 20; SEQ ID No 38665; 103pp; English
                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-639362/73.
N-PSDB; AAS72493.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ftp.wipo.int/pub/published_pct_sequences.
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100.0%; Pr
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Pred. No.
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The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes,

Claim 6; SEQ ID No

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192pp; French

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome CC and gene mapping, and in recombinant production of (II). The golymucleotides are also used in diagnostics as expressed sequence tags CC for identifying expressed genes. (I) is useful in gene therapy techniques (CI). (II) is useful for generating antibodies against it, detecting or cquantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical cimaging of sites expressing (II). (I) and (II) are useful for treating CC disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in CC diagnostics, forensics, gene mapping, identification of mutations CC responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and CC amino acid sequences. ABG00010-ABG30377 represent novel human CC diagnostic amino acid sequences of the invention.

CC Note: The sequence data for this patent did not appear in the printed confident on the printed confidence of the invention.
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Best Local S
Matches 7
                                                                      Genomic sequence for Listeria monocytogenes, useful e.g. for and prevention of Listeria and related bacterial infections, {\bf r}
                                                                                                                                                                                           Buchrieser C, Frangeul L, Couve E, Rusniok C, Fsihi H, Dehoux P Dussurget O, Chetouani F, Nedjari H, Glaser P, Kunst F, Cossart Daniels J, Goebel W, Kreft J, Kuhn M, Ng E, Vazquez-Beland JA; Dominguez-Bernal G, Garrido-Garcia P, Tierrez-Martinez A, Amend A Chakraborty T, Domann E, Hain T, Berche P, Chartit A, Durant L; Perez-Diaz J, Baquero F, Garcia Del Portillo F, Gomez-Lopez N; Perez-Diaz J, Baquero F, Garcia Del Portillo F, Gomez-Lopez N; Maduenio E, De Pablos B, Wehland J, Kaerst U, Entian K; Hauf J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Listeria monocytogenes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antibacterial; gene therapy; vaccine; biosynthesis; biodegradation; vitamin B12; bacterial infection; disease.
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100.0%; Pr
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                                                                                             for treatment
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The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62
                                                                                                                                                                                                                                                                                             generating
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                                                                                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                                                                    New glyphosate-N-acetyltransferase gene and polypeptide having increased rate of catalysis and increased stability, useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-phosphonomethylglycine;
transgenic; weed control;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Glyphosate resistance; glyphosate N-acetyltransferase; GAT; N-phosphonomethylglycine; herbicide resistance; plant; enzyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 vaccines compositions for the treatment or prevention of infections monocytogenes and related organisms.
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(PION-) PIONEER HI-BRED INT INC.
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                                                                                                                                                                                                               127;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ü
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                                                                                                                                                                                                                                                                                                                                             N-PSDB;
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DB; ABK92885.
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7; Conserv
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PIONEER HI-BRED INT INC.
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comprising a sequence

gap

existence penalty

of 11,

and a gap extension

penalty

Claim

Page 191;

254pp; English.

The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUW62

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CC of 1, where the polypeptide has glyphosate N-acetyl transferase (wa.)
CC activity, including fragments, variants, polypeptides recognised by
CC anti-(S) antibodies. Also included are the polypucleotides encoding (I)
CC (including variants and recombinant polypucleotides), a cell comprising
CC the recombinant polypucleotide heterologous to the cell, a transgenic
CC plant or its explant and seed comprising the above cell and producing (M)
CC a variant of (I) by recursively recombining (I) with a second
CC polypucleotide, forming a library of variant polypucleotides.
CC (N-phosphonomethylglycine) resistant transgenic plant or plant cell.
CC These transgenic plants are useful for selectively controlling weeds in
CC field containing a crop, and for producing crops such as cotton, corn or
CC soybean. The transgenic plant is useful for controlling weeds in a field
CC containing a crop and for preventing emergence of herbicide resistant
CC weeds in a field. The present sequence represents a GAT polypeptide
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The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 11, and a gap extension penalty of 1, where the polypeptide has glyphosate N-acetyl transferase (GAT)
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                                                                                                                                                                                   Claim
                                                                                                                                                                                                                                       New glyphosate-N-acetyltransferase gene and polypeptide having increased rate of catalysis and increased stability, useful for generating glyphosate resistant plants
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7; Conserv
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The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 11, and a gap extension penalty of 1, where the polypeptide has glyphosate N-acetyl transferase (GAT)

recognised

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      comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 11, and a gap extension penalty of 1, where the polypeptide has glyphosate N-acetyl transferase (AT) activity, including fragments, variants, polypeptides recommendations.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Glyphosate resistance; glyphosate N-acetyltransferase; N-phosphonomethylglycine; herbicide resistance; plant; transgenic; weed control; cotton; corn; soybean.
                                                                                                                                                    generating
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                                                                                                                             Claim
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         The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 11, and a gap extension penalty of 1, where the polypeptide has glyphosate N-acetyl transferase (GAT) activity, including fragments, variants, polypeptides recognised by anti-(§) antibodies. Also included are the polymucleotides encoding in the companion of the polymucleotides are companions.
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plant or its explant and seed comprising the above cell and p
a variant of (I) by recursively recombining (I) with a second
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DB; ABK92902.
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                                                                                                                                               Page 192;
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The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 11, and a gap extension penalty of 1, where the polypeptide has glyphosate N-acetyl transferase (AT) activity, including fragments, variants, polypeptide recognised by anti-(S) antibodies. Also included are the polynucleotides encoding (I) (including variants and recombinant polynucleotides), a cell comprising the recombinant polynucleotides to the cell, a transgenic
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DB; ABK92906.
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           The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 1, and a gap extension penalty of 1, where the polypeptide has glyphosate N-acety transferase (GAT) activity, including fragments, variants, polypeptides recognised by anti-(S) antibodies. Also included are the polymucleotides encoding (including variants and recombinant polymucleotides), a cell comprising the recombinant polymucleotides in transgenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a variant of (I) by recursively recombining (I) with a second polynucleotide, forming a library of variant polynucleotides. Forming a library of variant polynucleotides are recombinant GAT polynucleotide is useful for producing a glyphosate (N-phosphonomethylglycine) resistant transgenic plant or plant cell. These transgenic plants are useful for selectively controlling weeds in field containing a crop, and for producing crops such as cotton, corn or soybean. The transgenic plant is useful for controlling weeds in a field containing a crop and for preventing emergence of herbicide resistant weeds in a field. The present sequence represents a GAT polypeptide
                                                                                                                                                                                                            increased rate of catalysis and increased generating glyphosate resistant plants
                                                                                                                                                                                                                                                                          WPI; 2002-490010/52
N-PSDB; ABK92908.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Glyphosate resistance; glyphosate N-acetyltransferase; N-phosphonomethylglycine; herbicide resistance; plant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                Claim 127; Page 193;
                                                                                                                                                                                                                            New glyphosate-N-acetyltransferase gene and polypeptide having increased stability, useful for
                                                                                                                                                                                                                                                                                                                                    Castle LA,
                                                                                                                                                                                                                                                                                                                                                                                                                30-OCT-2000; 2000US-244385P
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                                                                                                                                                                                                                                                                                                                                                                   (MAXY-) MAXYGEN INC.
(PION-) PIONEER HI-BRED INT INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           or its explant and seed comprising lant of (I) by recursively recombini
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       control; cotton;
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Best Local Similarity
Thes 7; Conserv
                  The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 11, and a gap extension penalty of 1, where the polypeptide has glyphosate N-acetyl transferase (GAT) activity, including fragments, variants, polypeptides recognised by anti-(S) antibodies. Also included are the polynucleotides encoding (I) (including variants and recombinant polynucleotides), a cell comprising the recombinant polynucleotide heterologous to the cell, a transgenic plant or its explant and seed comprising the above cell and producing (M
  plant
a vari
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                                                                                                                                                                                                                                                                                                                                                                                 New glyphosate-N-acetyltransferase gene and polypeptide increased rate of catalysis and increased stability, use generating glyphosate resistant plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Glyphosate resistance; glyphosate N-acetyltransferase; GAT; N-phosphonomethylglycine; herbicide resistance; plant; enzyme;
                                                                                                                                                                                                                                                                                                                                  Claim
                                                                                                                                                                                                                                                                                                                                                                              generating
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(PION-) PIONEER HI-BRED INT INC.
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                                                                                                                                                                                                                                                                                                                             Page 193;
                                                                                                                                                                                                                                                                                                                                                                              glyphosate resistant plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       146 AA;
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100.0%; Pr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cotton; corn; soybean
                                                                                                                                                                                                                                                                                                                             English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 7;
Pred. No.
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70;
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       (I) with
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RESULT 33
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                 The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 11, and a gap extension penalty of 1, where the polypeptide has glyphosate N-acetyl transferase (GAT) activity, including fragments, variants, polypeptides recognised by anti-(S) antibodies. Also included are the polynucleotides encoding (I) (including variants and recombinant polynucleotides), a cell comprising the recombinant polynucleotide heterologous to the cell, a transgenic plant or its explant and seed comprising the above cell and producing (New York (I) by recursively recombining (I) with a second
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                                                                                                                                                                                                                                                                                                                                                                                      Claim 127;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MAXYGEN INC.
PIONEER HI-BRED INT INC
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The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 11, and a gap extension penalty of 1, anti-(s) anti-doing fragments, variants, polypeptides recognised by anti-(s) anti-bodies. Also included are the polynuclectides encoding (I) (including variants and recombinant polynuclectides), a cell comprising the recombinant polynuclectide heterologous to the cell, a transgenic polynuclectide, forming a library of variant polynuclectides.

To avariant of (I) by recursively recombining (I) with a second polynuclectide, forming a library of variant polynuclectides.
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N-PSDB; ABK92917.
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                                                                                                                                                                                                                                                                      Claim 127; Page 193-194;
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RESULT 35
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The invention relates to an isolated or recombinant polypeptide (I) CC comprising an amino acid sequence that can be optimally aligned with CC a sequence (S) of 147 amino acids fully defined in the specification CC a sequence (S) of 147 amino acids fully defined in the specification CC to generate a similarity score of at least 430, using the BLOSUM62 CC matrix, a gap existence penalty of 11, and a gap extension penalty CC activity, including fragments, variants not receive transferase (GAT) CC (including variants and recombinant polymucleotides recognised by CC anti-(S) antibodies. Also included are the polymucleotides encoding (I) CC (including variant polymucleotide heterologous to the cell, a transgenic CC plant or its explant and seed comprising the above cell, and producing CC a variant of (I) by recursively recombining (I) with a second CC polymucleotide, forming a library of variant polymucleotides.

CC (N-phosphonomethylglycine) resistant transgenic plant or plant cell.
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RESULT 36
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               polynucleotide, forming a library of variant polynucleotides. The recombinant GAT polynucleotide is useful for producing a glyphosate (N-phosphonomethylglycine) resistant transgenic plant or plant cell.
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                  The invention relates to an isolated or recombinant polypeptide (I) CC comprising an amino acid sequence that can be optimally aligned with CC a sequence (s) of 147 amino acids fully defined in the specification CC to generate a similarity score of at least 430, using the BLOSUM62 CC matrix, a gap existence penalty of 11, and a gap extension penalty CC of 1, where the polypeptide has glyphosate N-acetyl transferase (GAT) CC (including fragments, variants, polypeptides recognised by CC anti-(s) antibodies. Also included are the polynucleotides encoding (I) CC (including variants and recombinant polynucleotides), a cell comprising CC the recombinant polynucleotide heterologous to the cell and producing CC plant or its explant and seed comprising the above cell and producing CC avariant of (I) by recursively recombining (I) with a second CC polynucleotide, forming a library of variant polynucleotides. CC The recombinant GAT polynucleotide is useful for producing a glyphosate (N-phosphonomethylglycine) resistant transgenic plant or plant cell. CT reset transgenic plants are useful for producing a glyphosate field for producing a glaphosate (The recombinant plants are useful for producing a glyphosate (The recombinant plants are useful for producing a glyphosate (The recombinant plants are useful for producing a glyphosate (The recombinant plants are useful for producing a glyphosate) are selectively controlling weeds in the field of the producing and the plants are useful for producing and pro
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 127; Page 195; 254pp; English.
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                    The invention relates to an isolated or recombinant polypeptide (I) comprising an amino acid sequence that can be optimally aligned with a sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 11, and a gap extension penalty of 1, where the polypeptide has glyphosate N-acetyl transferase (GAT) cof 1, where the polypeptide has glyphosate N-acetyl transferase (GAT) cof 1, where the polypeptide has glyphosate N-acetyl transferase (GAT) comparison of (I) sectivity, including fragments, variants, polypeptides recognised by anti-(S) antibodies. Also included are the polynucleotides encoding (I) (including variants and recombinant polynucleotide secondinant polynucleotide heterologous to the cell, a transgenic plant or its explant and seed comprising the above cell and producing (M) a variant of (I) by recursively recombining (I) with a second polynucleotide, forming a library of variant polynucleotides.

CC nhese transgenic plants are useful for selectively controlling weeds in field containing a crop, and for producing crops such as cotton, corn or soybean. The transgenic plant is useful for controlling weeds in a field containing a for producing macrons of the recipies of the producing plant is useful for controlling weeds in a field containing and for producing macrons of the producing controlling weeds in a field containing and for producing macrons of the producing the producing weeds in a field containing and for producing macrons of the producing the producing weeds in a field containing and for producing macrons of the producing the producing weeds in a field containing and to producing macrons of the producing weeds in a field containing weeds in a field containing the producing macrons of the producing weeds in a field containing weeds in a field containing weeds in a field containing the producing weeds in a field containing the producing weeds in a field containing the producing weeds in a fi
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comprising an amino acid sequence that can be optimally aligned with Ca sequence (S) of 147 amino acids fully defined in the specification to generate a similarity score of at least 430, using the BLOSUM62 matrix, a gap existence penalty of 11, and a gap extension penalty contivity, including fragments, variants, polypeptides recognised by anti-(S) antibodies. Also included are the polypuclectides encoding (I) clincluding variants and recombinant polynuclectides), a cell comprising the recombinant polynucleotide heterologous to the cell and producing (D) a variant of (I) by recursively recombining (I) with a second comprising the recombinant GAT polynucleotide is useful for producing a library of variant polynucleotides. The recombinant GAT polynucleotide is useful for producing a glyphosate (N-phosphonomethylglycine) resistant transgenic plant cell. These transgenic plants are useful for controlling weeds in containing a crop and for producing crops such as cotton, corn or soybean. The transgenic plant is useful for controlling weeds in a field containing a crop and for preventing emergence of herbicide resistant coll weeds in a field the present sequence represents a GAT polypeptide
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           The invention relates to an isolated or recombinant polypeptide (I) CC comprising an amino acid sequence that can be optimally aligned with CC a sequence (S) of 147 amino acids fully defined in the specification CC to generate a similarity score of at least 430, using the BLOSUM62 CC matrix, a gap existence penalty of 11, and a gap extension penalty CC activity, including fragments, variants, polypeptides recognised by CC anti (S) antibodies. Also included are the polymucleotides recognised by CC (including variants and recombinant polymucleotides), a cell comprising the recombinant polymucleotide heterologous to the cell, a transgenic CC plant or its explant and seed comprising the above cell and producing (M) a variant of (I) by recursively recombining (I) with a second CC polymucleotide, forming a library of variant polymucleotides. CC (N-phosphonomethylglycine) resistant transgenic plant or plant cell. CC field containing a crop, and for producing crops such as cotton, corn or CC soybean. The transgenic plant is useful for controlling weeds in a field containing a crop and for preventing emergence of herbicide resistant CC of the invention.
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containing a crop and weeds in a field. The of the invention.
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(PION-) PIONEER HI-BRED INT INC
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(PION-) PIONEER HI-BRED INT INC.
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                                      cc activity, including Tragments, variants, polypeptides recognised by (C anti-(S) antibodies. Also included are the polynucleotides encoding (I) (including variants and recombinant polynucleotides), a cell comprising the recombinant polynucleotide heterologous to the cell, a transgenic plant or its explant and seed comprising the above cell and producing (M) or a variant of (I) by recursively recombining (I) with a second polynucleotide, forming a library of variant polynucleotides glyphosate (N-phosphonomethylglycine) resistant transgenic plant or plant cell. These transgenic plants are useful for selectively controlling weeds in field containing a crop, and for producing crops such as cotton, corn or soybean. The transgenic plant is useful for controlling weeds in a field. The present sequence represents a GAT polypeptide
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                                                                                                                                                                                                                                                                                                                                                                                    generating glyphosate
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N-PSDB; ABK92947.
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Sequence

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Query Match
Best Local Similarity
Thes 7; Conserve
The invention relates to an isolated or recombinant polypeptide (I) CC comprising an amino acid sequence that can be optimally aligned with CC a sequence (S) of 147 amino acids fully defined in the specification CC to generate a similarity score of at least 430, using the BLOSUM62 CC matrix, a gap existence penalty of 11, and a gap extension penalty CC of 1, where the polypeptide has glyphosate N-acetyl transferase (GAT) CC activity, including fragments, variants, polypeptides recognised by CC anti-(S) antibodies. Also included are the polymucleotides encoding (I) (including variants and recombinant polymucleotides), a cell comprising the recombinant polymucleotide heterologous to the cell, a transgenic CC plant or its explant and seed comprising the above cell and producing (M) ca variant of (I) by recursively recombining (I) with a second CC polymucleotide, forming a library of variant polymucleotides.

CC The recombinant GAT polymucleotide is useful for producing a glyphosate (N-phosphonomethy)glycine) resistant transgenic plant or plant cell. CC field containing a crop, and for producing crops such as cotton, corn or controlling weeds in a field containing a crop and for preventing emergence of herbicide resistant containing a crop and for preventing emergence of herbicide resistant contains a field. The present sequence represents a GAT polypeptide
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                                                                                                                                                                                                                                                                                                                                                                                 Claim 127; Page 196;
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Sequence
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Query Match

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JIT 46 16056 AAU16056 stan AAU16056; 07-NOV-2001 Human novel s Human, immuno cytostatic; c neuroprotetic; c neuroprotetic; c reprovascul nervous syste corneal infec skin ageing; Homo sapiens. W0200155322-A 02-AUG-2000; 04-FEB-2000; 04-FEB-2000; 04-FEB-2000; 01-FAR-2000; 11-WAR-2000; 11-WAR-	Best Local Simil Matches 7; C 170 SSLI 5 88 SSLI
	.milarity 100.0%; Pred. No. 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0; SSLIKHA 176
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17-NOV-2000;
17-NOV-2000;
17-NOV-2000;
                                                                                                                                         e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection, and many other disorders listed in the specification. The polypeptides can also be used to aid wound healing and epithelial cell proliferation, to prevent skin aging due to sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, cofactors and other nutritional components. The present
                                                                                                                                                                                                                                                                                                                         prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used in diagnosing a pathological condition or susceptibility to a pathological condition. Antibodies to the proteins can also be used in alleviating symptoms associated with the disorders and in diagnostic immunoassays e.g. radioimmunoassays or enzyme linked immunosorbant assays (ELISA). Disorders which are diagnosed or treated include autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. neoplasms of the breast or liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to iscidence relates and proteins are use encoded secreted proteins. The nucleic acids and proteins are use encoded secreted proteins are neglical condition in e.g. humans, prevent, treat or ameliorate a medical condition in e.g. humans, prevent, treat or ameliorate a fine chickens or sheep. They
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used as foo
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17-NOV-2000;
                                                                                                                             sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to isolated nucleic acid molecules and their
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New nucleic acid molecules encoding 461 human secreted proteins for diagnosing, preventing, treating or ameliorating medical conditions
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DB; AAS26043.
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food additives
                                                              Similarity 7; Conserv
SSSLIKH
                                SSSLIKH 175
                                                                                                                             represents a novel secreted protein of
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2000US-0251479.

2000US-0251856.

2000US-0251868.

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2000US-0249244.

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Pred. No.
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humans, mice,
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RESULT 47
ABU55125
XX ABU55
XX Human
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haemostatic; antiarteriosclerotic.
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RESULT 48
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CC sequences ABU54914-ABU55699 and ABU55748 represent human novel
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Best Local S
Matches 7
                                                                                                                                                                                   Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence; corn.
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(RUBE/)
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08-DEC-2000; 2000US-251856P.
08-DEC-2000; 2000US-251868P.
08-DEC-2000; 2000US-251869P.
 25-FEB-1999;
05-MAR-1999;
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DB; ABX73384.
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BARASH S C.
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k; Pred. No. 72;
0; Mismatches
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99US-0134941
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99US-0125788.
99US-0126264.
99US-0126785.
   -0143624
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15-JUL-1999 16-JUL-1999 16-JUL-1999 19-JUL-1999 19-JUL-1999 19-JUL-1999 19-JUL-1999 19-JUL-1999

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RESULTÍ 49
ABG72337
ID ABG72
XX ABG72
XX ABG72
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XX ABG72
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22-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                            Human; hypoxin inductive factor 1 alpha subunit 17.60; erythrocyte disease; haemopathy; substance metabolic disorder; tumour; human immunodeficiency virus infection; HIV; immunological disease;
  WPI; 2002-637136/69.
N-PSDB; ABS57125.
                                                           Мао У,
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Similarity 100.0%; I
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99US-0159295

99US-0159230

99US-0159330

99US-0159584

99US-0160767

99US-0160767

99US-0160776

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                                                                                                     DEV CO LTD SHANGHAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Protein; 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 7; DB 2; Pred. No. 73; 0; Mismatches
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73;
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Matches 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention discloses a new kind of polypeptide, human hypoxin inductive factor 1 alpha subunit 17.60, polynucleotides encoding the polypeptide and production of the protein using recombinant DNA technology. The present invention also discloses applying the polypeptide in treating various diseases, such as erythrocyte disease, haemopathy, substance metabolic disorder, various tumours, human immunodeficiency virus (HIV) infection, immunological diseases and inflammations. The present invention also discloses the antagonist resisting the polypeptide and its treatment effect. The present invention also discloses application of polypucleotides encoding human hypoxic inductive factor 1 alpha subunit 17.60. The present sequence represents human hypoxic inductive factor 1 alpha subunit 17.60.
                                                                                                                                                                                                                                                                                                                                          bone disorder; osteoporosis; vascular growth disorder; tissue regeneration; wound healing; infection; immune disorder; cell culture; drug screening; gene therapy; antiinflammatory; antiasthmatic; antiarthritic; haemostatic; antiarteriosclerotic; cytogtatic; osteopathic; vasotropic; cardiant; virucide; antibac
                                                                                                                                                                                                                                                                                                                                                                                                                                Human; cytokine; cell proliferation; cell differentiation; growth factor; haematopoiesis regulation; tissue growth; immunomodulator; activin; inhibin; chemotaxis; chemokinesis; thrombolyais; oncogenesis; proliferation; metastasis; cancer; tumour; haematopoietic disorder; myeloid cell disorder; lymphoid cell disorder; asthma; arthritis; chronic inflammatory condition; proliferative retinopathy; atherosclerosis; coronary heart disease; arterial ischaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human Fc-gamma receptor homologue, SEQ ID NO:1620.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABB11250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Page 28 (disclosure); 34pp; Chinese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New human hypoxic inductive factor 1 alpha subunit 17.60 polypeptide for treating e.g. erythrocyte disease, hemopathy, various tumors, human immunodeficiency virus infection, immunological diseases, and
WPI; 2001-457740/49
N-PSDB; ABA08494.
                                                                                                                           03-FEB-2000; 2000US-0496914.
27-APR-2000; 2000US-0560875.
                                                                                                                                                                                                                                                                                                                         cytostatic; osteopathic; vasotropathic; vasotropathic; valuer; antiulcer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABB11250 standard; peptide; 162 AA
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                                                                                                                                                                                                                                                      WO200157188-A2
                                                                                                                                                                                                                                                                                          Homo sapiens.
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                                                    Liu C, Drmanac
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; Pred. No. 76;
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                  antibacterial;
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Human proteins and DNA encoding sequences useful for preventing, treating or ameliorating a medical condition in a mammalian subject e.g. arthritis and cancer -
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Claim 20; Page 160; 1963pp; English.

CC thrombolytic activities; receptor or ligand activities; or may be involved in oncogenesis, cancer cell proliferation or metastasis. CC Depending on their biological activities, polypeptides and nucleotides of the invention are useful for preventing, treating or ameliorating medical conditions, e.g., by protein or gene therapy. Such conditions include CC cancers, haematopoietic disorders (e.g., myeloid or lymphoid cell cancers, haematopoietic disorders (e.g., osteoporosis), and abnormal compositive retinopathy, atherosclerosis, coronary heart disease, coronary heart disease, coronary heart disease, or archititis), posteoporosis), and abnormal coronary (e.g., of bypeptides involved with tissue regeneration and coronary (e.g., of burns, incisions and ulcers), while those with commondulatory activities may be used to promote wound coronary heart disorders.

CC pomote cell growth factor activity may be used in cell cultures to promote cell growth factor activity may be used in cell cultures to promote cells from the disorders.

CC promote cells in culture to give rise to neuroepithelial cells cantonimune disease or accidental damage. The polypeptides may be used to cantonimune disease or accidental damage. The polypeptides and nucleotides coronary dae of the invention.

CC streening techniques. The present sequence represents a novel human constructed to the dispression of the above conditions, and in drug constructed to the dispression of the above conditions. Sequences ABB10981-ABB12330 represent 1350 novel human polypeptides, and sequences ABA0825-ABA09574 represent nucleic acids encoding them. The invention also relates to vectors and recombinant host cells comprising a nucleotide of the invention, methods of producing the novel polypeptides, antibodies against the polypeptides, methods of detecting the nucleotides or polypeptides in a sample, and methods of identifying compounds which bind to polypeptides of the invention. Although novel, many of the polypeptides of the invention have homology to known proteins, thereby giving an insight into their probable biological activities, and hence potential therapeutic applications. The polypeptides of the invention may have various activities, including cytokine, cell proliferation or cell differentiation activities, stem cell growth factor activity; hence the polypeptides of the invention activity. haematopoiesis regulatory activity; tissue growth activity; immunomodulatory activity; activin- or inhibin-related activities; chemotactic or chemokinetic activities; haemostatic, thrombotic or polypeptide of the invention

Sequence 162 Ŗ,

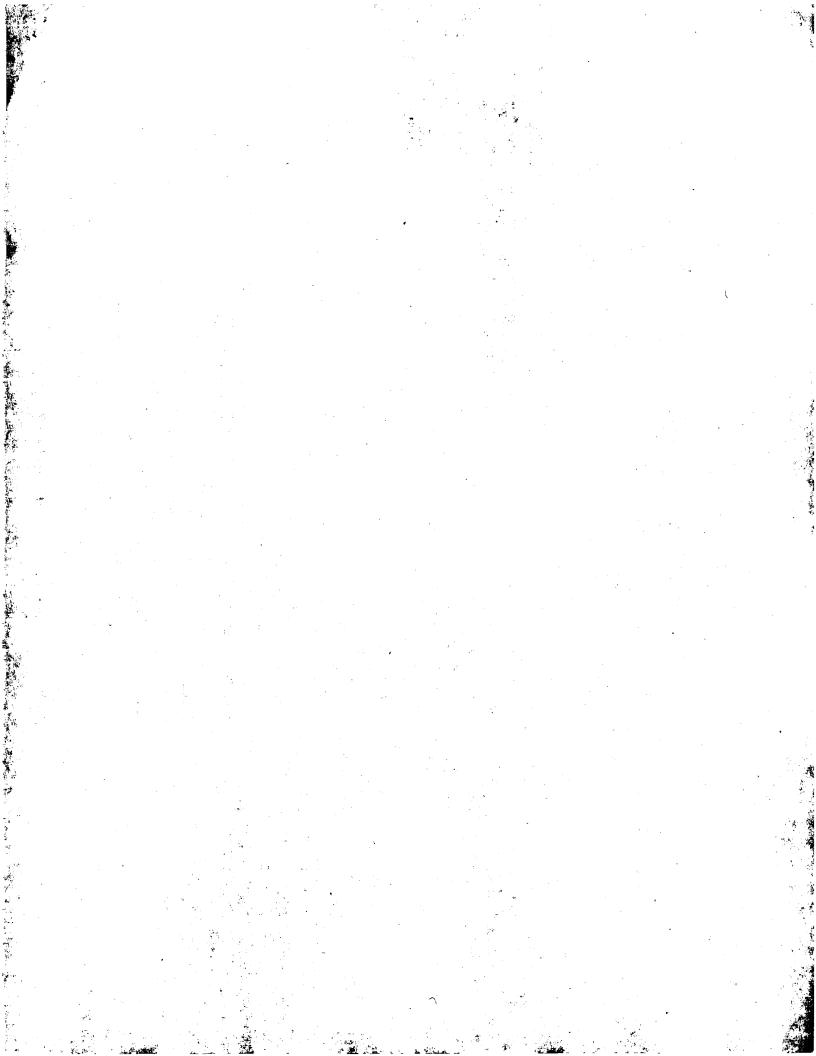
Query Match Best Local S Matches 7 l Similarity 7; Conserv Conservative 100.0%; F1. Score 7; I Mismatches DB 22; 0 Length 162 Indels 0 Gaps 0

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Search completed: January 28, 2004, 18:20:18 Job time : 75 secs



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Maximum DB seq length: 200000000
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                                                                                                                                                                                                                                                                                              Score
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US-10-319-763-189
US-10-319-763-189
US-10-004-357-441
US-10-004-357-445
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 Sequence 464, App Sequence 473, App Sequence 485, App Sequence 487, App Sequence 489, App Sequence 490, App Sequence 491, App Sequence 504, App Sequence 504, App Sequence 1820, App Sequence 21, App Sequence 21, App Sequence 21, App Sequence 26, App Sequence 279, App Sequence 27, App Sequence 17, App Sequence
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Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Protein 1: amino acid sequence encoded by coding strand ; OTHER INFORMATION: Start codon: gga, Start position: nucleotide 1. US-10-084-846A-6
FILE REFERENCE: G-031.US04.DIV
CURRENT APPLICATION NUMBER: US/10/319,763
CURRENT FILING DATE: 2002-12-10
PRIOR APPLICATION NUMBER: 60/066,677
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/069,957
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/074,121
PRIOR APPLICATION NUMBER: 60/074,121
PRIOR APPLICATION NUMBER: 60/074,121
PRIOR FILING DATE: 1998-02-09
PRIOR FILING DATE: 1998-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: 1974-005
CURRENT APPLICATION NUMBER: US/10/084,846A
CURRENT FILING DATE: 2003-02-25
PRIOR APPLICATION NUMBER: PCT/EP01/09815
PRIOR FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: DE 101 09 166.4
PRIOR APPLICATION NUMBER: DE 101 09 166.4
PRIOR FILING DATE: 2001-02-25
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PatentIn Ver. 3.2
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                                                                                                                                                                                                                                                     Sequence 93, Application US/10319763
Publication No. US20030144490A1
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 6
                                                                                                                                                                           APPLICANT: Dumas Milne Edwards, Jean-Baptiste
APPLICANT: Duclert, Aymeric
APPLICANT: Bougueleret, Lydie
TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: WEITNAUER, GABRIELE
APPLICANT: WUHLENWEG, AGNES
APPLICANT: TREFZER, AXEL
APPLICANT: BECHTHOLD, ANDREAS
TITLE OF INVENTION: AVILAMYCIN DERIVATIVES
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15 US-10-194-493-14

15 US-10-061-216-14

15 US-10-286-140-39

15 US-09-864-761-38522

10 US-09-972-484-20

10 US-09-972-484-20

10 US-10-029-386-29390

12 US-10-029-386-29390

15 US-10-201-444-5
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Pred. No.
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Sequence 39, Appl
Sequence 14, Appl
Sequence 14, Appl
Sequence 14, Appl
Sequence 39, Appl
Sequence 38522, A
Sequence 20390, A
Sequence 29390, A
Sequence 41263, A
Sequence 41263, A
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Sequence 44568, A
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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -32...-1
US-10-319-763-93
                                                 Query Match
Best Local Similarity
"""" Onserve
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; PRIOR APPLICATION NUMBER: 60/096,116
; PRIOR APPLICATION NUMBER: 60/099,273
; PRIOR APPLICATION NUMBER: 60/099,273
; PRIOR FILING DATE: 1998-09-04
; NUMBER OF SEQ ID NOS: 229
; SOFTWARE: Patent.pm
; SEQ ID NO 93
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Best Local Similarity
Thes 7; Conserve
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; NAME/KEY: SIGNAL
; LOCATION: -32..-1
US-10-319-763-187
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SOFTWARE: Patent.pm
SEQ ID NO 187
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PRIOR APPLICATION NUMBER: 60/099,273
PRIOR FILING DATE: 1998-09-04
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PRIOR FILING DATE: 1998-04-13
PRIOR APPLICATION NUMBER: 60/096,116
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PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/069,957
PRIOR FILING DATE: 1997-12-17
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CURRENT APPLICATION NUMBER: US/10/319,763
CURRENT FILING DATE: 2002-12-10
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TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS
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ORGANISM: Homo sapiens
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                           144 NKISLES 150
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NKISLES
                                                                   Conservative
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; Pred. No. 44;
0; Mismatches
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; Pred. No. 44;
                                                                   Mismatches
                                                                                                     Length 72
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US-09-853-161-61 ; Sequence 61, Application US/09853161 ; Patent No. US20020076756A1

GENERAL INFORMATION:

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RESULT 5
US-09-852-659A-61
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                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/852,659A
CURRENT FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: 00/265,583
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 09/152,060
PRIOR APPLICATION NUMBER: 09/152,060
PRIOR FILING DATE: 1998-09-11
PRIOR APPLICATION NUMBER: PCT/US98/04858
PRIOR APPLICATION NUMBER: 60/040,762
PRIOR APPLICATION NUMBER: 60/040,762
PRIOR APPLICATION NUMBER: 60/040,762
PRIOR FILING DATE: 1997-03-14
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Patent No.
PRIOR APPLICATION NUMBER: 60/040,710
PRIOR FILING DATE: 1997-03-14
PRIOR APPLICATION NUMBER: 60/050,934
PRIOR FILING DATE: 1997-05-30
PRIOR APPLICATION NUMBER: 60/048,100
PRIOR APPLICATION NUMBER: 60/048,357
PRIOR APPLICATION NUMBER: 60/048,357
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Best Local Similarity
7; Conserv
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SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 61
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PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: 09/152,060
PRIOR FILING DATE: 1998-09-11
PRIOR APPLICATION NUMBER: PCT/US98/04858
PRIOR APPLICATION NUMBER: 60/040,762
PRIOR APPLICATION NUMBER: 60/040,762
                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Rosen et al.
TITLE OF INVENTION: 28 Human Secreted Proteins
FILE REFERENCE: PZ003P4
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TYPE: PRT
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PRIOR APPLICATION NUMBER: 60/050,934
PRIOR FILING DATE: 1997-05-30
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PRIOR APPLICATION NUMBER: 60/040,710
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OR APPLICATION NUMBER: 60/057,765
OR FILING DATE: 1997-09-05
OR APPLICATION NUMBER: 60/048,970
OR FILING DATE: 1997-06-06
OR APPLICATION NUMBER: 60/068,368
OR FILING DATE: 1997-12-19
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US20020077287A1
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s; Pred. No. 59;
0; Mismatches
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                                                                                                                   ; ORGANISM: Homo sapiens US-09-852-797-61
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PRIOR FILING DATE: 1997-05-30
PRIOR PELICATION NUMBER: 60/057,765
PRIOR FILING DATE: 1997-09-05
PRIOR APPLICATION NUMBER: 60/048,970
PRIOR FILING DATE: 1997-06-06
PRIOR PRIOR PRIOR NUMBER: 60/068,368
PRIOR PILING DATE: 1997-12-19
NUMBER OF SEQ ID NOS: 121
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Sequence 01, Appracus
No. US20020172994A1
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CURRENT FILING DATE: 2001-05-11
PRIOR APPLICATION NUMBER: 60/265,583
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TITLE OF INVENTION: 28 Human Secreted Proteins
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PRIOR APPLICATION NUMBER: 60/040,762
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                                                                                                                                                                    LENGTH:
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144 NKISLES 150
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100.0%; Pred. No.
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; LENGTH: 106
; TYPE: PRT
ORGANISM: Homo sapiens
; FEATURE:
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Best Local Similarity
Thehes 7; Consert
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Publication No.
                                                                                                                                                                                            TITLE OF INVENTION: EXTENDED CDNAS FOR SECRETED PROTEINS FILE REFERENCE: G-031.US04.DIV CURRENT APPLICATION NUMBER: US/10/319,763 CURRENT FILING DATE: 2002-12-10 PRIOR APPLICATION NUMBER: 60/066,677 PRIOR EILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/099,273
PRIOR FILING DATE: 1998-09-04
                                      PRIOR APPLICATION NUMBER: 60/081,563
PRIOR FILING DATE: 1998-04-13
PRIOR APPLICATION NUMBER: 60/096,116
PRIOR FILING DATE: 1998-08-10
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CURRENT APPLICATION NUMBER: US/10/319,763
                                                                                                                                                                                                                                                                                                                                                                                             mblication No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: SIGNAL LOCATION: -32..-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Dumas Milne Edwards, Jean-Baptiste
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PPLICANT: Bougueleret, Lydie
                                                                                                                                                          APPLICATION NUMBER: 60/069,957 FILING DATE: 1997-12-17
                                                                                                                  APPLICATION NUMBER: 60/074,121
FILING DATE: 1998-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NT FILING DATE: 2002-12-10
APPLICATION NUMBER: 60/066,677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: FILING DATE: 1998-09
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FILING DATE: 1998-02-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/069,957 FILING DATE: 1997-12-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: 60/081,563
FILING DATE: 1998-04-13
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No. US20030144490A1
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Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                            US-10-004-357-441
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                                                                                                                                                                                                                         GENERAL INFORMATION:
                                                                                                                                                                                                                                        Sequence 441, Application US/10004357 Publication No. US20030083480A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 440
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
                                                      APPLICANT: Chen, Yong Hong
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
                                                                                                                                                APPLICANT: Castle, Linda A.
APPLICANT: Siehl, Dan
APPLICANT: Giver, Lorraine
APPLICANT: Minshull, Jeremy
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TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
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ORGANISM: Artificial Sequence
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Duck, Nicholas
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Minshull, Jeremy
                                                                                                                                 Ivy, Christina
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DE: 02-107010US
ICATION NUMBER: US/10/004,357
NG DATE: 2001-10-29
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Pred. No.
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To. 62;
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o. 82;
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Best Local Similarity
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SEQ ID NO 441
LENGTH: 146
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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Best Local Similarity 100.0%;
Matches 7; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Chen, Yong Hong
APPLICANT: Duck, Nicholas B.
APPLICANT: Duck, Nicholas B.
APPLICANT: Duck, Nicholas B.
APPLICANT: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
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PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 515
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                                                                                         APPLICANT: Castle, Linda A. APPLICANT: Siehl, Dan APPLICANT: Giver, Lorraine APPLICANT: Minshull, Jeremy
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                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT ORGANISM: Artificial Sequence PEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: Synthetic Protein Sequence
PPLICANT: Chen, Yong Hong
PPLICANT: Duck, NICHARB B.
ITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
ITLE OF INVENTION: (GAT) GENES
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                                                                        Ivy, Christina
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b. US20030083480A1
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; Pred. No.
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lo. 82;
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; FEATURE:
; OTHER INFORMATION: Synthetic Protein Sequence
US-10-004-357-457
RESULT 14

US-10-004-357-458

; Sequence 458, Application US/10004357

; Publication No. US20030083480A1
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Best Local Similarity
Thes 7; Conserve
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SOFTWARE: FRANCSEQ for Windows Version 4.0
SEQ ID NO 452
LENGTH: 146
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 457
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Matches 7; Conserv
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NAME/KEY: UnBURE
LOCATION: 45
OTHER INFORMATION: X
NAME/KEY: UnBURE
LOCATION: 105
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CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: US 60/244,385 PRIOR FILING DATE: 2000-10-30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Castle, Linda A. APPLICANT: Siehl, Dan
                                                                                                                                                                                                                                                                                                 LENGTH: 146
TYPE: PRT
ORGANISM: Artificial Sequence
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                                                                                                                              170 SSLIKHA 176
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Duck, Nicholas I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Siehl, Dan
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o. US20030083480A1
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ilarity 100.0%;
Conservative (
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$; Pred. No. 82;
0; Mismatches
                                                                                                                                                                                           Score 7;
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RESULT 16
US-10-004-357-464
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Best Local Similarity lov.
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Best Local Similarity
Matches 7; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 462
LENGTH: 146
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
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APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT FAPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR APPLICATION NUMBER: US 60/244,385
NUMBER OF SEQ ID NOS: 515
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APPLICANT: Duck, Nicholas B.
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOCHEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
FULL REFERENCE: 02-1070
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 515
SOFTWARE: FastSEQ for Windows Version 4.0
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ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
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                                                                                                                                                                                170 SSLIKHA 176
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100.0%; Pr
                                                                                                                                                                                                                                                                   100.0%; ; ; tive 0;
                                                                                                                                                                                                                                                                ; Score 7; DB 1
%; Pred. No. 82;
0; Mismatches
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Pred. No.
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o. 82;
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88

SSLIKHA 94

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Query Match
Best Local Similarity
""" hes 7; Conserve
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TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Protein Sequence
US-10-004-357-464
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US-10-004-357-465
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                                                                                                OTHER INFORMATION: Synthetic Protein Sequence US-10-004-357-465
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 464
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 465
                                  Matches
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Publication No. US20030083480A1
                                                             Query Match
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APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: (OVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
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                                                                                                                                                                                                                                                                                                             FILE REFERENCE: 02-107010US
                                                                                                                                                                                                                                                                                                                       IITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE ITTLE OF INVENTION: (GAT) GENES
                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
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                                                                                                                                             TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                          PPLICANT:
                                                                                                                              FEATURE:
                                                                                                                                                                             ENGTH: 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ication No.
                                 Local Similarity
les 7; Conserv
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   SSLIKHA 176
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Duck, Nicholas B.
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Giver, Lorraine
Minshull, Jeremy
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Giver, Lorraine
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                               Conservative (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Linda A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
                                                                  3.6%;
                                                 Score 7; pred. No
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                                    Mismatches
                                                   No.
                                                   DB 15;
lo. 82;
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lo. 82;
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                                    Indels
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Publication No

Application US/10004357 5. US20030083480A1

INFORMATION:

-10-004-357-470

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APPLICANT: Chen, Yong Hong
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 515
SOPTWARE: FBSUSEQ for Windows Version 4.0
SEQ ID NO 470
LENGTH: 146
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                                                                                                            ; OTHER INFORMATION: Synthetic Protein Sequence US-10-004-357-473
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SOPTWARE: FABLSEQ for Windows Version 4.0
SEQ ID NO 473
LENGTH: 146
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                                      Matchea
                                                                                                                                                                                                                                                                                    APPLICANT: Ivy, Christina
APPLICANT: Chen, Yong Hong
APPLICANT: Duck, Nicholas B.
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
NUMBER OF GET IN NUMBER: US 60/244,385
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence FEATURE:
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                                                                                                                                                                                             TYPE: PRT
                                  Local Similarity hes 7; Conserv
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les 7; Conserv
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170 SSLIKHA 176
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b. US20030083480A1
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                                                    Score 7; DB 15; Length 146; Pred. No. 82;
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                                      Mismatches
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Mismatches
                                      0; Indels
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APPLICANT: Chen, Yong Hong
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT TILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 515
SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 485
                                                        ; OTHER INFORMATION: Synthetic Protein Sequence US-10-004-357-487
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Best Local Similarity
Thes 7; Conserve
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 487, Application US/10004357 Publication No. US20030083480A1
Query Match
Best Local Similarity
                                                                                                                                                                                                                            APPLICANT: Chén, Yong Hong
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
NUMBER: OS 607244,385
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                                                                                                                                     LENGTH: 14
TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Castle, Linda A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                              ORGANISM: Artificial Sequence FEATURE:
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TYPE: PRT
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Ivy, Christina
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Ivy, Christina
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Conservative (
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3.6%; Score 7; 1
100.0%; Pred. No.
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LOO.0%; Pred. No. 82;
ive 0; Mismatches
  DB 15;
o. 82;
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                    Length 146;
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FEATURE:
OTHER INFORMATION: Synthetic Protein Sequence US-10-004-357-489
                                                                                                                APPLICANT: Chen, Yong Hong
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 515
SOFTWARE: FastSEQ for Windows Version 4.0
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Best Local Similarity
7; Conserve
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SEQ ID NO 488
LENGTH: 146
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                                                                                                     SEQ ID NO 489
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                                                                                                                                                                                                                                                                                                                                                                                                                          Publication No.
                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Castle, Linda A. APPLICANT: Siehl, Dan APPLICANT: Giver, Lorraine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Chen, Yong Hong
APPLICANT: Duck, Nicholas B.
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
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                                                LENGTH: 146
TYPE: PRT
ORGANISM: Artificial Sequence
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D. US20030083480A1
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Mismatches
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                                                  SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 491
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                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                     Sequence 491, Application US/10004357 Publication No. US20030083480A1
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Best Local (
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                                                                                                 APPLICANT: Chen, Yong Hong
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
                                                                                    NUMBER OF SEQ
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APPLICANT: Sieh
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   ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ENGTH: 146
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                                                                                                                                                                                                                                                              Castle, Linda A. Siehl, Dan Giver, Lorraine Minshull, Jeremy Ivy, Christina
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                                                                                   ID NOS: 515
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; OTHER INFORMATION: Synthetic Protein Sequence US-10-004-357-490
                                                                                                                                                      SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 490
                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILLING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
                                                                                                                                                                                                                                                               APPLICANT: Chen, Yong Hong
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
              3.6%; Score 7;
100.0%; Pred. N
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ed. No. 82
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             DB 15;
lo. 82;
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FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
NUMBER OF SEO ID NOS: 515
SOFTWARE: FABLSEQ for Windows Version 4.0
SEO ID NO 492
LENGTH: 146
TYPE: PRT
ORGANISM: Artificial Sequence
     APPLICANT: Chen, Yong Hong
APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION UMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 515
SOFTWARE: FastSEQ for Windows Version 4.0
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; OTHER INFORMATION: Synthetic Protein Sequence US-10-004-357-491
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Best Local:
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                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                           Sequence 495, A Publication No.
                                                                                                                                                                                                                                                                                                                                                               -10-004-357-495
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APPLICANT: Duck, Nicholas B.
IITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
IITLE OF INVENTION: (GAT) GENES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
OTHER INFORMATION: Synthetic Protein Sequence
ID NO 495
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es 7; Conservative
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Giver, Lorraine
Minshull, Jeremy
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Ivy, Christina
                                                                                                                                                                                                                                                                                                                                              Application US/10004357
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b; Pred. No. 82;
0; Mismatches
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APPLICANT.:

Siehl, Dan Giver, Lorraine Minshull, Jeremy

PPLICANT:

Ivy, Christina

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Query Match
Best Local Similarity
''hes 7; Conserve
                                                               RESULT 29
US-10-004-357-504
                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Synthetic Protein Sequence US-10-004-357-503
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                                                                                                                                                                       Query Match
Best Local Similarity luv.
Sequence 504, Application US/10004357
Publication No. US20030083480A1
GENERAL' INFORMATION:
APPLICANT: Castle, Linda A.
                                                                                                                                                                                                                                                                                                                                                       PRIOR FILING DATE: 2000-10-30
NUMBER OF SEG ID NOS: 515
SOFTWARE: FastSEQ for Windows Version 4.0
SEG ID NO 503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 503, Application US/10004357 Publication No. US20030083480A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LOCATION: 26
OTHER INFORMATION: Xaa = L
NAME/KEY: unsure
LOCATION: 33
OTHER INFORMATION: Xaa = I
                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE TITLE OF INVENTION: (GAT) GENES FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Castle, Linda A.
                                                                                                                                                                                                                                                                                                                           LENGTH: 146
TYPE: PRT
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                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence
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                                                                                                                                                               170 SSLIKHA 176
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Minshull, Jeremy
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Duck, Nicholas B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ivy, Christina
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Pred. No.
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US-09-764-864-1009
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GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
                                                                                                                                                                                                                                      Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR FILING DATE: 2000-10-30
NUMBER OF SEQ ID NOS: 515
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 506
LENGTH: 146
                                                         Sequence 1009, Application US/09764864 Patent No. US20020132753A1
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LENGTH: 146
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TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
CURRENT APPLICATION NUMBER: US/10/004,357
CURRENT FILING DATE: 2001-10-29
PRIOR APPLICATION NUMBER: US 60/244,385
PRIOR APPLICATION NUMBER: US 60/244,385
NUMBER OF SEQ ID NOS: 515
NUMBER OF SEQ ID NOS: 515
SOFTWARE: FastSEQ for Windows Version 4.0
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APPLICANT: Siehl,
APPLICANT: Giver,
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APPLICANT: Duck, Nicholas B.
TITLE OF INVENTION: NOVEL GLYPHOSATE N-ACETYLTRANSFERASE
TITLE OF INVENTION: (GAT) GENES
FILE REFERENCE: 02-107010US
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o. US20030083480A1
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100.0%; Pr
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Mismatches
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5. 82;
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Query Match
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Thehes 7; Conserva
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                                                                                                            RESULT 33
US-09-902-941-1820
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CURRENT FILING DATE: 2000-12-13
NUMBER OF SEQ ID NOS: 1864
SOPTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1820
Sequence 1820, Application US/09902941
PATENT NO. US20020172952A1
GENERAL INFORMATION:
APPLICANT: Henderson, Robert A.
APPLICANT: Wanny, Tongtong
APPLICANT: Watnabe, Yoshihiro
APPLICANT: Watnabe, Yoshihiro
APPLICANT: Johnson, Jeffrey C.
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NUMBER OF SEQ ID NOS: 1792
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1009
LENGTH: 151
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Best Local (
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Patent No. US20020168637A1
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ORCANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (88)
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                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER FILE REFERENCE: 210121.478C15
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TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                              ORGANISM: Homo sapiens
                                                                                                                                                                          121 CFEKNEA 127
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Vedvick, Tom
Carter, Darrick
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Fan, Liqun
Wang, Aijun
                                                                                                                                                                                                                                                                                                                                                                         FastSEQ for Windows Version 3.0
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Lodes, Michael A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Wang, Tongtong
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Pred. No.
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APPLICANT:

APPLICANT:

Marnerakis, Margarita Retter, Marc W

Carter, Darrick Fanger, Gary R.

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RESULT 35
US-10-113-872-1820
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Best Local Similarity
"""hes 7; Conserve
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US-09-849-626-1820
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US-09-849-626-1820
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; TYPE: PRT
; ORGANISM: Homo Bapiens
US-09-902-941-1820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: SWITZEY, Anne APPLICANT: McNeill, Patricia APPLICANT: McNeill, Patricia APPLICANT: McNeill, Patricia APPLICANT: Clapper, Jonathan TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER FILE REFERENCE: 210121.478C16 CURRENT APPLICATION NUMBER: US/09/849,626 CURRENT FILING DATE: 2001-05-03 NUMBER OF SEQ ID NOS: 1926 SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 1820 LENGTH: 212
                                                                                           Sequence 1820, Application US/10113872
Publication No. US/20030170255A1
GENERAL INFORMATION:
APPLICANT: Watanabe, Yoshihiro
APPLICANT: Henderson, Robert A.
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Best Local Similarity 100.0%;
Matches 7; Conservative
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CURRENT APPLICATION NUMBER: US/09/902,941
CURRENT FILING DATE: 2001-07-10
NUMBER OF SEQ ID NOS: 2002
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                                                                             APPLICANT:
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APPLICANT: Fanger, Gary
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                                   Henderson, Robert A
Kalos, Michael D.
Sleath, Paul R.
Vedvick, Thomas S.
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Wang, Tongtong
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Bangur, Chaitanya S.
McNabb, Andria
Carter, Darrick
Fanger, Gary R.
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Pred. No.
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; ORGANISM: Homo sapiens US-10-017-754-1820
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; ORGANISM: Homo sapiens
US-10-113-872-1820
                                                                                                                                                                                                                                                RESULT 37
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Sequence 3, Application US/09838564A
Patent No. US20020072099A1
GENERAL INFORMATION:
APPLICANT: Mockel, Bettina
APPLICANT: Pfefferle, Walter
APPLICANT: Marx, Achim
TITLE.OF INVENTION: New Nucleotide Sequences Coding for the Genes sucC and
FILE REFERENCE: 21123/278466
CURRENT APPLICATION NUMBER: US/09/838,564A
CURRENT FILING DATE: 2001-04-20
NUMBER OF SEQ ID NOS: 5
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TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.478C19
CURRENT APPLICATION NUMBER: US/10/113,872
CURRENT FILING DATE: 2002-03-28
RUMBER OF SEQ ID NOS: 2011
SOFTWARE: FRABESEQ for Windows Version 4.0
SEQ ID NO 1820
LENGTH: 212
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 2004
SOPTWARE: FBSTSEQ for Windows Version 4.0
SEQ ID NO 1820
LENGTH: 212
TYPE: PRT
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APPLICANT:
APPLICANT:
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APPLICANT: Fanger, Gary R.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Bangur, Chaitanya S.
APPLICANT: McNabb, Andria
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.478618
CURRENT APPLICATION NUMBER: US/10/017,754
CURRENT FILING DATE: 2001-10-29
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                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity tes 7; Conserv
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                                                                                                                                                                                                                                                                                                                                                  84 CFEKNEA 90
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Johnson, Jeffrey C.
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be, Yoshihiro
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100.0%; Pred. No.
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LENGTH: 294
TYPE: PRT
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Matches 7; Conserv
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APPLICANT: NAKAGAWA, SATOSHI
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                                                                                                                                                                                                                                           10-369-493-442
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APPLICANT:
APPLICANT:
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES FILE REFERENCE: 38-10(5252)B CURRENT APPLICATION NUMBER: US/10/369,493 CURRENT FILING DATE: 2003-02-28
                                                                                       APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: Patentin ver. 3.0
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FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR FILING DATE: 1000-04-07
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APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
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TATEISHI, NAOKO
SENOH, AKIHIRO
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OCHIAI, KEIKO
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; Pred. No.
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o. 1.5e+02;
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5. 1.5e+02;
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Sequence 8, Application US/10183708

; Publication No. US20030143679A1

; GENERAL INFORMATION:
   APPLICANT: VOSSHALL, LESLIE
   APPLICANT: AMREIN, HUBERT
   APPLICANT: AXEL, RICHARD
   TITLE OF INVENTION: GENES ENCODING INSECT ODORANT RECEPTORS AND USES THEREOF
   FILE REFERENCE: 0575/58715-AA-PCT-US/JPW/ADM/BJA
   CURRENT APPLICATION NUMBER: US/10/183,708
   CURRENT FILING DATE: 2002-06-25
   PRIOR APPLICATION NUMBER: US 09/932,227
   PRIOR APPLICATION NUMBER: US 09/932,227
   PRIOR APPLICATION NUMBER: US 09/932,227
   PRIOR FILING DATE: 2000-02-25
   PRIOR APPLICATION NUMBER: US 09/257,706
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Best Local Similarity
"herhes 7; Conserve
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US-10-108-260A-3171
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                                                          US-10-183-708-8
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CURRENT FILING DATE: 2002-03-27
NUMBER OF SEQ ID NOS: 5458
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 3171
LENGTH: 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 442
                                                                                                                                        SOFTWARE: PatentIn version 3.0 SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 3171, Application US/10108260A Publication No. US20040005560A1 GENERAL INFORMATION:
Best Local Similarity
                Query Match
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TITLE OF INVENTION: No. US20040005560Alel full length cDNA
                                                                       TYPE: PRT ORGANISM: DROSOPHILA MELANOGASTER DOR53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Homo sapiens
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TYPE: PRT
                                                                                                                   LENGTH:
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ilarity 100.0%;
Conservative
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3.6%;
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Score 7; 1
Pred. No.
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Pred. No.
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DB 12;
o. 2e+02;
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o. 1.8e+02;
                  Length 397;
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APPLICANT: 1ALL, AKIO
APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT APPLICATION NUMBER: JP 99/377484
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PATENTIN VET. 3.0
SEQ ID NO 5318
LENGTH: 429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; LENGTH; 397
TYPE: PRT
; ORGANISM: DROSOPHILA MELANOGASTER DOR53
US-09-932-227-8
                                                               ; ORGANISM: Corynebacterium glutamicum 
US-09-738-626-5318
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S-09-738-626-5318
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 5318, Application US/09738626
Publication No. US20020197605A1
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Query Match
Best Local Similarity
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Best Local Similarity 100.0%; Pred. No.
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CURRENT APPLICATION NUMBER: US/09/932,227
CURRENT FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: PCT/US00/04995
PRIOR FILING DATE: 2000-02-25
NUMBER OF SEQ ID NOS: 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: VOSSHALL, LESLII
APPLICANT: AMREIN, HUBERT
APPLICANT: AXEL, RICHARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROS
APPLICANT: ANDO, SEIKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  62
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TATEISHI, NAOKO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OCHIAI, KEIKO
                                                                                                                                                                                                                                                                                                                                                                                                                                       SENOH, AKIHIRO
IKEDA, MASATO
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  3.6%; Score 7; DB 10; Length 429; 100.0%; Pred. No. 2.1e+02;
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lo. 2e+02;
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; TYPE: PRT ; ORGANISM: Arabidopsis thaliana US-09-934-455-170
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SOFTWARE: PatentIn version 3.1
SEQ ID NO 170
LENGTH 170
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                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                 Sequence 166, Application US/10225068
Publication No. US20030217383A1
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CURRENT FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/227439
PRIOR FILING DATE: 2000-08-22
PRIOR APPLICATION NUMBER: MBI-0022
PRIOR FILING DATE: 2001-11-16
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              APPLICANT: Broun, Pierre E.
TITLE OF INVENTION: STRESS-RELATED POLYNUCLEOTIDES AND
TITLE OF INVENTION: POLYPEPTIDES IN PLANTS
FILE REFERENCE: 514442002040
CURRENT APPLICATION NUMBER: US/10/225,068
CURRENT FILING DATE: 2002-08-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Pineda, Omaira
TITLE OF INVENTION: Genes for Modifying Plant Traits IV
FILE REFERENCE: MBI-0025
                                                                                                                                                                                                                               APPLICANT:
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RIOR APPLICATION NUMBER: 60/310,847
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Reuber, Lynne
Riechmann, Jose Luis
Yu, Guo-Liang
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Jiang, Cai-Zhong
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Dubell, Arnold
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Jiang, Cai-Zhong
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                                                                                                                    Yu, Guo-Liang
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100.0%; Pred. No.
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OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.54
OTHER INFORMATION: SWISSPROT HIT: P52742, EVALUE 0.00e+00
US-10-029-386-34057
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CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34288
SOFTWARE: Annomax Sequence Listing Engine vers.
SEQ ID NO 34057
                                                                                                                        Sequence 15951, Application US/10369493
Publication No. US20030233675A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 34057, Application US/10029386
Publication No. US20030194704A1
GENERAL INFORMATION:
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Best Local
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SEQ ID NO 166
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                  APPLICANT:
                                               APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
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APPLICANT: Rank, David R.
APPLICANT: HAIZE!, David K.
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR TITLE OF INVENTION: EXPRESSION ANALYSIS TWO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS:
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ORGANISM: Homo sapiens
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NAME/KS: DOMAIN
LOCATION: (116)...(179)
OTHER INFORMATION: Conserved domain
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ORGANISM: Arabidopsis thaliana
                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENGTH: 495
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INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
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   Goldman, Barry S.
Chen, Xianfeng
TVENTION: Tree
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/ 100.0%; Pr
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                                                                                                                                                                                                                                                                                                                     Score 7; 1
Pred. No.
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No. 2.4e+02;
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RESULT 49
US-10-369-493-2798
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PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 16315
                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                 Sequence 2798, Application US/10369493 Publication No. US20030233675A1
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Matches 7; Conserv
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Best Local
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PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 15951
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APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianieng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
TILE REFERENCE: 38-10 (52052)B
CURRENT PROPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
                                                                                           APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL
TITLE OF INVENTION: PLANTS WITH IMPROVED PR
FILE REFERENCE: 38-10(52052)B
                                                     CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
              PRIOR APPLICATION NUMBER: US 60/360,039 PRIOR FILING DATE: 2002-02-21
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CURRENT FILING DATE: 2003-02-28
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TYPE: PRT
ORGANISM: Xanthomonas campestris
NUMBER OF SEQ ID NOS:
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GENEMAL ....

APPLICANT: Huang, Liss
APPLICANT: McClusky, Michael
APPLICANT: McClusky, Michael
APPLICANT: LaRossa, Robert
TITLE OF INVENTION: HIGH LEVEL PROMOTERS FROM CYANOBACTERIA
FILE REFERENCE: CL1715 US NA
CURRENT APPLICATION NUMBER: US/10/047,260
CURRENT FILING DATE: 2002-01-15
PRIOR APPLICATION NUMBER: 60/264,925
PRIOR FILING DATE: 2001-01-30
NUMBER OF SEQ ID NOS: 40
SOFTWARE: Microsoft Office 97
SEQ ID NO 36
LENGTH: 627
TYPE: PRT
ORGANISM: Synechocystis sp. strain PCC6803
US-10-047-260-36

3.6%; Score 7; DB 14; Length 627;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 50
US-10-047-260-36
US-10-047-260-36; Sequence 36, Application US/10047260; Publication No. US20020164706A1; GENERAL INFORMATION:
                                                                                         밁
Search completed: January 28, 2004, 18:34:43 Job time: 609 secs
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; LENGTH: 627
; TYPE: PRT
; ORGANISM: Synechocystis sp.
US-10-369-493-2798
                                                                                                                                                                       Ouery Match 3.6%; Score 7; DB 14; L
Best Local Similarity 100.0%; Pred. No. 2.9e+02;
Matches 7; Conservative 0; Mismatches 0;
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Maximum DB
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 Pred. No. 18 the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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ALIGNMENTS

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RESULT 2
S57057
A;Map position: 10R
A;Note: YJR038c
C;Superfamily: Saccharomyces probable membrane
C;Keywords: transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N;Alternate names: hypothetical protein J1612
C;Species: Saccharomyces cerevisiae
C;Date: 08-Jul-1995 #sequence revision 08-Sep-1995
C;Accession: S57057; S63762
                                                                                                                            A;Cross-references: EMBL:L36344; NID:g1197060; PIDN:AAA88740.1; PID:g1197066
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, February 1996
                                                                                                                                                                                                                   A;Accession: S6370
A;Status: nucleic
                                                                                                                                                                                                                                    A;Reference number: S63757; MUID:95397595; A;Accession: S63762
                                                                                                                                                                                                                                                                                                                       A;Cross-references: EMBL:Z49538; NID:g1015687; PID:g1015688; MIPS:YJR038cR;Huang, M.E.; Chuat, J.C.; Gallbert, F.
Yeast 11, 775-781, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R;Huang, M.E.; Chuat, J.C.; Galibert, F. submitted to the Protein Sequence Database,
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A; Map position: 38.1 min
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Willison, J.C.; Tissot, G.
J. Bacteriol. 176, 3400-3402, 1994
A;Title: The Escherichia coli efg gene and
A;Reference number: A59276; MUID:94253014;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Reference number: S15555
A;Accession. Orror
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAD synthase (EC 6.3.1.5) adgA [validated] - Rhodobacter capsulatus
N;Alternate names: NAD+ synthase (glutamine-hydrolyzing) (EC 6.3.5.1) [misidentification
                                                                                    A;Cross-references:
                                                                                                                                                                                          A; Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      probable membrane protein YJR038c -
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C; Function:
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A;Description: Essential genes of Rhodobacter capsulatus and Escherichia coli possibly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C; Species: Rhodobacter capsulatus
                                                                                                                                                                                                                                                                                                   A; Title: Analysis of a 42.5 kb DNA sequence of chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Reference number: S57052
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:Residues: 1-120 <M
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8; Conserv
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protein J1612
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Pred. No.
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                   protein YJR038c
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hypothetical protein Rv0760c - Mycobacterium tuberculosis (strain H37RV)
c;Species: Mycobacterium tuberculosis
C;Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 28-Jul-2000
C;Accession: C70706
R;Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Connor, R.; Davies, R.; Devlin, K.; Feltwell, T.; Gentles, S.; Hamlin, N.;
Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skelton, S.; Squares, S.
Nature 393, 537-544, 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Species: Synechocystis sp.
A;Variety: PCC 6803
C;Date: 25.35.
                                                                                                                                                                                                                                                             A;Authors: Sqares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; A;Title: Deciphering the biology of Mycobacterium tuberculosis fr A;Reference number: A70500; MUID:98295987; PMID:9634230 A;Accession: C70706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miyajima, N.; o, K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Yasuda DNA Res 3, 109-136, 1996
A;Title: Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis
á
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A; Residues: 1-13
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                                                                                                                                                                     A; Experimental source: strain
                                                                                                                                                                                      A;Cross-references: GB:Z80226; GB:AL123456; NID:g3261638; PIDN:CAB02403.1; PID:e266556; F
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A; Residues: 1-135 < KAN>
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                                                                                                                 Superfamily:
                                                                                                                                                                                                                                              Status: preliminary; nucleic acid sequence not shown; translation not;
                                          Matches
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Pred. No.
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o. 16;
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o. 15;
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.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurg Jones, L.M.; Karst, U. Science 294, 849-852, 2001
A; Althors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; ok, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-EA; Title: Comparative genomics of Listeria species. A, Reference number: AB1077; MUID:21537279; PMID:11679669
A; Accession: AB1428
                                                                                                                                                         RESULT
D49054
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A; Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; ok, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; A;Title: Comparative genomics of Listeria species.
A;Reference number: AB1077; MUID:21537279; PMID:11679669
A;Accession: AI1801
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R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussu D.; Jones, L.M.; Karst, U.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      transcription regulator (MarR family) homolog lin2960 [imported] - Listeria C;Species: Listeria innocua C;Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 27-Nov-2001 [imported] |
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C;Accession: AB1428
R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend,
R;Glaser, P.; Frangeul, L.; Buchaud, E.; Durand, L.;
T-cell receptor delta chain C region - pig (fragment)
C;Speciaes: Sus ecrofa domestica (domestic pig)
C;Date: 21-Jan-1994 #sequence_revision 18-Nov-1994 #text_change 23-Jul-1999
C;Accession: D49054
R;Thome, A.; Saalmuller, A.; Pfaff, E.
Eur. J. Immunol. 23, 1005-1010, 1993
A;Title: Molecular cloning of porcine T cell receptor alpha, beta, gamma and
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A; Residues: 1-140 <GLA>
A; Cross-references: GB: AL592022; PIDN: CAC98185.1;
A; Experimental source: strain Clip11262
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A;Molecule type: DNA
A;Mesiduse; 1-140 <GLA>
A;Cross-references: GB:NC_003210; PIDN:CAD01040.1;
A;Experimental source: strain EGD-e
A;Experimental source: strain EGD-e
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;Date: 27-Nov-2001 #sequence_rev
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llarity 100.0%;
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0; Mismatches
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Vazquez-Boland, J.
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Dussurget, O.;
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Dussurget, O.;
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; Entian, K.D.;
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Voss, H.; Wehland,
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Voss, H.; Wehland
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Fsihi, H.
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Faihi, H.
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A;Status: preliminary; translated f)
A;Molecule type: DNA
A;Residues: 1-164 <ISE>
A;Cross-references: EMBL:AB021506; PA;Cross-references: EMBL:AB021506; PA;Experimental source: strain HST; C;Genetics:
A;Note: U98
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A;Variety: strain HST
C;pate: 21-Jan-2000 #sequence_revision 21-Jan-2000 #text_change 21-Jul-2000 C;Pate: 21-Jul-2000 #sequence_revision 21-Jan-2000 #text_change 21-Jul-2000 C;Pate: 21-Jul-2000 #sequence_revision A; Isegawa, Y; Mukai, T.; Nakano, K.; Kagawa, M.; Chen, J.; Mori, Y.; Sunagawa, T.; Kawa J. Virol. 73, 8053-8063, 1999
A;Title: Comparison of the complete DNA sequences of human herpesvirus 6 variants A and A;Reference number: Z22732; MUID:99412319; PMID:10482554
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A;Note: sequence extracted from NCBI backbone (NCBIP:130289)
C;Superfamily: immunoglobulin C region; immunoglobulin homology
C;Keywords: T-cell receptor
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A;Accession: D49054'
A;Status: preliminary; not compared with conceptual trana, Molecule type: mRNA
A;Residues: 1-152 <THO>
                                                                                                A;Gene:
C;Superf
                                                                                                                                                                                                                                                                                       R;Hayashi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, gasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H. DNA Res. 8, 11-22, 2001
A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 and A;Reference number: A99629; MUID:21156231; PMID:11258796
A;Accession: F91031
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F91031
                                                                                                                                         A;Molecule type: DNA
A;Residues: 1-187 <HAX'>
A;Residues: 1-187 <HAX'>
A;Cross-references: GB:BA000007; PIDN:BAB36645.1; PID:g13362692; GSPDB:GN00154
A;Experimental source: strain O157:H7, substrain RIMD 0509952
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                     probable fimbrial-like protein [imported] - Escherichia coli (strain 0157:H C;Species: Escherichia coli (c;Species: Bull-2001 #sequence_revision 18-Jul-2001 #text_change 17-May-2002 C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 17-May-2002 C;Accession: F91031
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                                                                                                fimbrial protein
                      3.6%; Score 7;
100.0%; Pred. No.
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0; Mismatches
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ubiquitin thiolesterase (EC 3.1.2.15)
N;Alternate names: gene 9.5 protein; r
C;Species: Homo sapiens (man)
C;Date: 05-Oct-1988 #sequence_revision
C;Accession: A25856; S14307
R;Day, I.N.M.; Thompson, R.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypothetical protein CAC0992 [imported] - Clostridium acetobutylicum C;Species: Clostridium acetobutylicum C;Species: Clostridium acetobutylicum C;Species: 14-Sep-2001 #sequence_revision 14-Sep-2001 #text_change 14-Sep-2001 C;Accession: E97022 R;Nolling, J.; Breton, G.; Omelchenko, M.V.; Markarova, K.S.; Zeng, Q.; Gibson, R.; L.; Daly, M.J.; Bennett, G.N.; Koonin, E.V.; Smith, D.R. J. Bacteriol. 183, 4823-4838, 2001 A;Title: Genome Sequence and Comparative Analysis of the Solvent-Producing Bacterium A;Reference number: A96900; MUID:21359325; PMID:21359325 A;Accession: E97022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, Nature 409, 529-533, 2001
A;Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7.
A;Reference number: A85480; MUID:21074935; PMID:11206551
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A; Residues: 1-203 < KI
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C;Superfamily:
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                                                                                                                                                RESULT
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                                ;Date: 05-Oct-1988 #sequence_revision;Accession: A25856; S14307
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Experimental source: Clostridium acetobutylicum
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Best Local
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                                                                                                                                                                                                                                                                           3.6%; Score 7; DB 100.0%; Pred. No. 22 tive 0; Mismatches
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ATCC824
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K.; Apodaca,
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A;Reference number: S14307; MUID:91192138; PMID:1849484
A;Accession: S14307
A;Authors: Grandi, G.; Sun, L.; Smith, H.O.; Fraser, C.M.; Moxon, E.R.; A;Title: Complete genome sequence of Neisseria meningitidis serogroup B A;Reference number: A81000; MUID:20175755; PMID:10710307
                                                                      R;Tettelin, H.; Saunders, N.J.; Heidelberg, J.; Jeffries, A.C.; Nelson, K.E.; Eisen, Hickey, E.K.; Haft, D.H.; Salzberg, S.L.; White, O.; Fleischmann, R.D.; Dougherty, B. ri, H.; Qin, H.; Vamathevan, J.; Gill, J.; Scarlato, V.; Masignani, V.; Pizza, M. Science 287, 1809-1815, 2000
                                                                                                                                                                       hypothetical protein NMB1404 [imported] - Neisseria meningitidis (strain MC58 serogroup I C;Species: Neisseria meningitidis C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 19-Jan-2001 C;Accession: A81087
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A;Residues: 1-223 <KAJ>
A;Cross-references: DDBJ:D01109
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A;Title: CDNA cloning and tissue distribution of a rat ubiquitin carboxyl-terminal hydrol A;Reference number: JX0222; MUID:93054416; PMID:1331034
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N;Alternate names: ubiquitin carboxy-terminal esterase; ubiquitin carboxyl-terminal
C;Species: Rattus norregicus (Norway rat)
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A;Title: Neuronal protein gene product 9.5 (IEF SSP 6104) is expressed A;Title: Neuronal protein gene product 9.5 (IEF SSP 6104)
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A;Residues: 9-14;68-72;73-78,'X',80;95-104;105-112;125-140
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A; Residues: 1-212 < DAY>
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A; Reference number: A25856; MUID:87080796; PMID:2947814
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                               Rappuoli, R.;
strain MC58.
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A81087

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C;Date: vorus, 1.2. C;Date: vorus, 1.3. Pentley, S.D.; Bentley, S.D.; Chacession: Achtman, M.; James, K.D.; Bentley, S.D.; vorus, Quail, M.A.; pagenter, R; Parkhill, J.; Achtman, M.; Leather, S.; Moule, S.; Mungall, K.; Quail, M.A.; pagenter, Holroyd, S.; Jagels, K.; Leather, S.; Moule, S.; Mungall, K.; Quail, M.A.; pagenter, Holroyd, S.; Mungall, K.; Quail, M.A.; pagenter, Jagenter, S.; Mungall, K.; Quail, M.A.; pagenter, Holroyd, S.; Mature, M.; Mature, M
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S70367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Petitte, J.N.; Kulik, M.J.
Blochim. Biophys. Acta 1307, 149-151, 1996
A;Title: Cloning and characterization of cDNAs encoding
A;Reference number: S70366; MUID:96283808; PMID:8679698
A;Accession: S70367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              stem cell factor short form precursor - quail C;Species: Coturnix coturnix (quail) C;Date: 06-Dec-1996 #sequence_revision 25-Apr-1997
                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: mRNA
A;Residues: 1-253 <PET>
A;Crose-references: EMBL:U43079; NID:gl150877; PIDN:AAC59934.1;
C;Superfamily: mouse mast cell growth factor
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A;Residues: 1-242 <PAR>
A;Crose-references: GB:AL162756; GB:AL157959; NID:g7380091; PIDN:CAB84852.1; PID:g738026
A;Experimental source: serogroup A, strain Z2491
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A;Residues: 1-242.<TET>
A;Residues: 1-242.<TET>
A;Cross-references: GB:AE002489; GB:AE002098; NID:g7226640; PIDN:AAF41767.1; PID:g722664
A;Experimental source: serogroup B, strain MC58
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A;Gene: NMB1404
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                                                                                                                                                                                                                                                                ,Cross-reterences: Annual growth factor
,Supertamily: mouse mast cell growth factor
,Keywords: growth factor; transmembrane protein
,1-25/Domain: signal sequence #status predicted <SIG>
,26-253/Product: stem cell factor short form #status p
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llarity 100.0%;
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100.0%; Pr
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Mismatches
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                                                                                                                                                                                             RESULT 19
JN0637
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C;Superfamily: Saccharomyces probable membrane protein YLR404w
C;Keywords: transmembrane protein
F;18-34/Domain: transmembrane #status predicted <TM1>
F;249-265/Domain: transmembrane #status predicted <TM2>
stem cell factor precursor - chicken C;Species: Gallus gallus (chicken) C;Date: 24-Feb-1994 #sequence_revision C;Accession: JN0637 R;Zhou, J.H.; Ohtaki, M.; Sakurai, M. Gene 127, 269-270, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Cross-references: EMBL:U43078; NID:g1150875; PIDN:AAC59933.1; C;Superfamily: mouse mast cell growth factor C;Keywords: growth factor; transmene protein F;1-25/Domain: signal sequence #status predicted <SIG>F;26-287/Product: stem cell factor long form #status predicted <F;26-250/Domain: transmembrane #status predicted <TMM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Stem cell factor long form precursor - quail
C;Species: Coturnix coturnix (quail)
C;Date: 06-Dec-1996 #sequence_revision 25-Apr-1997 #text_change 21-Jul-2000
C;Accession: S70366
R;Petitte, J.N.; Kulik, M.J.
Biochim. Biophys. Acta 1307, 149-151, 1996
A;Title: Cloning and characterization of cDNAs encoding two forms of avian & A;Reference number: S70366; MUID:96283808; PMID:8679698
A;Accession: S70366; MUID:96283808; PMID:8679698
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N;Alternate names: hypothetical protein L8084.3
C;Species: Saccharomyces cerevisiae
C;Date: 23-Aug-1995 #sequence_revision 19-Oct-1995 #text_change 19-A
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A; Residues: 1-287 < PET>
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A; Residues: 1-285 < DUZ >
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A; Accession: S55960
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R;Choisne, N.; Robert, C., submitted to the Protein Se submitted to number: Z23010
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A;Cross-references: GB:D13516; NID:g391648; PIDN:BAA02733.1; PID:g391649
A;Experimental source: brain
C;Superfamily: mouse mast cell growth factor
C;Keywords: growth factor: frameworks
                                                                                                                                                                                                                                                                               hypothetical protein F1P2.170 - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress) C;Species: 04-Feb-2000 #sequence_revision 04-Feb-2000 #text_change 04-Feb-2000
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                                                                                                                    A; Experimental source:
                                                                                                                                                  A; Molecule type: DNA
A; Residues: 1-477 < CHO>
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submitted to the EMBL Data Library, July 1333
submitted to the EMBL Data Library, July 1333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    probable phosphate regulatory protein PAB0144 - C;Species: Pyrococcus abvasi
                                                                                                                                                                                                                                                                                                                                                       RESULT
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A;Residues: 1-303 <KAW>
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A;Accession: H75210
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                                                                                                              Cross-references: EMBL:AL132955
Experimental source: cultivar Columbia; BAC clone F1P2
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Experimental source: strain Orsay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Keywords: growth factor; transmembrane protein
1-25/Domain: signal sequence #status predicted <SIG>
26-287/Product: stem cell factor #status predicted <MAT>
226-248/Domain: transmembrane #status predicted <TMM>
     Matches
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   Conservative
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                  Score 7;
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C;Species: Synechocystis sp.
A;Variety: PCC 6803
C;Date: 25-Apr-1997 #sequenc
C;Accession: S76378
                                                                                                   RESULT
S76378
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A;Variety: strain Z29
C;Date: 21-Jan-2000 #sequence revision 21-Jan-2000 #text_change 21-Jan-2000 C;Accession: T44237
                                                                   cell division protein ftsH-1 - Synechocystis N_iAlternate names: protein slr0228
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A;Note: U100
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A;Cross-references: EMBL:AF157706;
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E81398
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A;Residues: 1-616 <DOM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Title: Human herpesvirus
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R; Dominguez, G.; Dambaugh,
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A;Experimental source: serotype O2, strain NCTC 11168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Residues: 1-602 <PAR>
A;Cross-references: GB:AL139075;
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                 #sequence_revision
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Z22734; MUID:99412318; PMII
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                  25-Apr-1997
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C;Species: Caenorman, Carlon 19-0
C;Date: 15-OCt-1999 #Bequence_revision 19-0
C;Accession: T29644
R;Blanchard, M.; Bradshaw, H.
Bubmitted to the EMBL Data Library, July 19
A;Description: The sequence of C. elegans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Koster, M.; van de Vossenberg, J.; Leong, J.; Weisbeek, P.J.
Mol. Microbiol. 8, 591-601, 1993
A;Title: Identification and characterization of the pupB gene encoding
A;Reference number: S32899; MUID:93316856; PMID:8392140
A;Accession: S32899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C;Species: Pseudomonas putida
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change
C;Accession: S32899
R;Koster, M.; van de Vossenberg, J.; Leong, J.; Weisbeek, P.J.
                                                                                                                                                                                                                                           RESULT 26
T29644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Superfamily: ferric-pseudobactin receptor; ton8-depen C;Keywords: membrane protein F;1-45/Domain: signal sequence #status predicted <SIG> F;46-809/Product: ferric-pseudobactin receptor #status
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A;Title: Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis
                                                                                                                                                             hypothetical protein W01A11.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
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A; Residues: 1-809 < KOS>
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A;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Molecule type: DNA
A;Residues: 1-627 <KAN>
A;Cross-references: EMB
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A; Reference number:
A; Accession: T29644
A; Status: prelimina:
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Matches 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;46-809/Product: ferric-pseudobactin receptor #status predicted <MAT>;189-319/Domain: tonB-dependent receptor amino-terminal homology <TNN>;543-809/Domain: tonB-dependent receptor carboxyl-terminal homology <T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gene: pupB
Start codon:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cross-references: GB:X73598; GB:S63481; NID:g403024; PIDN:CAA51995.1;
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preliminary; translated from GB/EMBL/DDBJ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
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7; Conserv
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                                                                                                                                                                                                                                                                                                                                          LNPDGSG 441
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/ 100.0%; Pr
                                                                                                                                                                                                                                                                                                                                                                                                                                                          3.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                    score 7; DB 2; Pred. No. 77; 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                not shown; translation not shown
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                                                                        cosmid W01A11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 2;
o. 61;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 2;
5. 77;
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C; Genetics:
A; Gene: CC1493
C; Superfamily: I
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A; Residues: 1-823 <BLA>
A; Cross-references: EMBL:U64852; PIDN:AAB04966.1; GSPDB:GN00023;
A; Experimental source: strain Bristol N2; clone W01A11
C; Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Nierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Nelson, F.B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; n. J.; Ermolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001
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Best Local Similarity
Thes 7; Conserva
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C;Species: Caulobacter crescentus
C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 10-May-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Introns: 15/3; 87/2;
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A;Map position: 5
                                                                                                                                                                                            A;Cross-references: EMBL:U23515; NID:g746492; PID:g746493; A;Experimental source: strain Bristol N2 C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                           submitted to the EMBL Data Library, March A; Description: The sequence of C. elegans A; Reference number: Z18571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hypothetical protein R144.1 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #sequence_revisio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Title: Complete Genome Sequence of Caulobacter crescentus. A;Reference number: A87249; MUID:21173698; PMID:11259647 A;Accession: D87434
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                                                                                                                                                                                                                                                                                                                              A;Status: preliminary; translated from A;Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                            A; Accession: T16759
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Query Match
Best Local S
Matches 7
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Best Local S
Matches 7
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   Similarity 7; Conserv
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                                                                                                                                     125/1;
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Conservative (
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      Conservative
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                                                                                                                                     261/2; 331/3; 350/2; 516/3; 589/1; 615/2;
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                                     100.0%;
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100.0%; Pred. No
                                     3.6%; Score 7;
L00.0%; Pred. No.
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Mismatches
      Mismatches
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). 79;
                                     ). BB 2
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                                                                    Length 928
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                                                                                                                                                                                                                                                                        PIDN: AAC46545.1;
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                                                                                                                                         638/3;
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          Gaps
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hypothetical protein 1068 - liverwort (Marchantia polymorpha) chloroplast C;Species: chloroplast Marchantia polymorpha
C;Species: chloroplast Marchantia polymorpha
C;Date: 30-Sep-1989 #sequence_revision 30-Sep-1989 #text_change 21-Jul-2000
C;Accession: S01519; A05027
R;Kohchi, T.; Shirai, H.; Fukuzawa, H.; Sano, T.; Komano, T.; Umesono, K.; Inoku J. Mol. Biol. 203, 353-372, 1988
A;Title: Structure and organization of Marchantia polymorpha chloroplast genome.
A;Reference number: S01512; MUID:89068688; PMID:3199437
A;Accession: S01519
A;Molecule type: DNA
A;Residues: 1-1068 <KOH-
A;Coss-references: EMBL:X04465; NID:g11640; PIDN:CAA28143.1; PID:g11732
R;Fleischmann, R.D.; Adams, M.D.; White, O.; Clayton, R.A.; Kirkness, E.F.; Kerlavage, Gocayne, J.D.; Scott, J.; Shirley, R.; Liu, L.I.; Glodek, A.; Kelley, J.M.; Weidman, D.M.; Brandon, R.C.; Fine, L.D.; Fritchman, J.L.; Fuhrmann, J.L.; Geoghagen, N.S.M.
                                                                                                               hypothetical protein HI0696 - Haemophilus influenzae (strain Rd KW20)
C;Species: Haemophilus influenzae
C;Date: 18-Aug-1995 #sequence_revision 18-Aug-1995 #text_change 29-Sc
                                                                                                                                                                                                            RESULT
A64157
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R;Oliver, K.; Harris, D.; Parkhill, submitted to the EMBL Data Library, A;Reference number: Z21558
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C;Species:
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A;Residues: 1-982 <OLI>
A;Cross-references: EMBL.AL021530;
A;Experimental source: strain A3(2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Reference number: A38014
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Best Local S
Matches 7
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;Species: Streptomyces coelicolor
;Date: 05-Nov-1999 #sequence_revision 05-Nov-1999 #text_change 03-Dec-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Genome: chloroplast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genetics:
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                                                                                                                                                                                                                                                                                                                                 908
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100.0%; Pr
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Pred. No.
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January 1998
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99;
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                                                                                                                     #text_change 29-Sep-1999
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A; Molecule type: mRNA
A; Residues: 1-1620 <ISH>
A; Cross-references: EMBL: Z11595; NID: g62774; PIDN: CAA77677.1; PID: g62775
C; Superfamily: alpha-2-macroglobulin
C; Keywords: plasma
                                                                                                                                                                                                                                                                                                                                                  cell proliferation antigen Ki-67 - mouse
C;Species: Mus musculus (house mouse)
C;Pate: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 21-Jul-2000
C;Accession: T30249
R;Starborg, M.; Gell, K.; Brundell, E.; Hoog, C.
J. Cell Sci. 109, 143-153, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 33
T30249
                                                                                      A;Gene: Ki-
C;Keywords:
                                                                                                                                A;Cross-references: EMBL:X82786; NID:g1177527; PIDN:CAA58026.1; PID:g1177528 A;Experimental source: strain CBA; testis C;Genetics:
                                                                                                                                                                                                A; Molecule type: mRNA
A; Residues: 1-2938 < STA>
                                                                                                                                                                                                                                                             A; Reference number: A; Accession: T30249
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A;Title: Isolation of a hagfish gene that encodes a complement component.
A;Reference number: S21045; MUID:92192016; PMID:1372251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         complement protein homolog inshore hagfish (fragment)
c;Species: Eptatretus burgeri (inshore hagfish)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 16-Jul-1999
C;Accession: S21045
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S21045
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A;Restdues: 1-1298 <TIGR>
A;Restdues: 1-1298 <SIGR>
A;Cross-references: GB:U32752; GB:L42023; NID:g1573692; PIDN:AAC22356.1; PID:g1573699; TI
A;Note: best homolog was a hypothetical protein from Escherichia coli
C;Superfamily: ytfN protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Authors: Gnehm, C.L.; McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Ve A;Title: Whole-genome random sequencing and assembly of Haemophilus influenzae Rd. A;Reference number: A64000; MUID:95350630; PMID:7542800 A;Accession: A64157
                                                                                                                                                                                                                                                                                                                    J. Cell Sci. 109, 143-153, 1996
A; Title: The murine Ki-67 cell proliferation antigen accumulates
                                                                                                                                                                                                                                           A;Status: preliminary; translated
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                         Query Match
Best Local
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Reference number: Z20787; MUID:96431717; PMID:8834799
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                                                                                      cell cycle control; nucleus; tandem repeat
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Similarity 100.0%;
7; Conservative
Similarity 7; Conserv
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nilarity 100.0%;
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                         3.6%; Score 7;
100.0%; Pred. No.
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Pred. No.
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Pred. No.
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                      DB 2; Le
o. 2.5e+02;
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o. 1.2e+02;
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o. 1.4e+02;
                                           Length 2938;
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R;Heidelberg, J.F.; Eisen, J.A.; Nelson, W.C.; Clayton, R.A.; Gwinn, M.L.; chardson, D.; Ermolaeva, M.D.; Vamathevan, J.; Bass, S.; Qin, H.; Dragoi, 1 R.R.; Mekklanos, J.J.; Venter, J.C.; Fraser, C.M.
Nature 406, 477-483, 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Molecule type: DNA
A;Residues: 1-3169 <MAK>
A;Reperimentel source: strain EHEC O157:H7, substrain RIMD 0509952
A;Bxperimentel source: strain EHEC O157:H7, substrain RIMD 0509952
R;Burland, V.; Shao, Y.; Perna, N.T.; Plunkett, G.; Sofia, H.J.; Blattner, F.R.
Nucleic Acids Res. 26, 4196-4204, 1998
Nucleic Acids Res. 26, 4196-4204, 1998
A;Reference number: Z22068; MUID:98391744; PMID:9722640
A;Accession: T42195
S
                                                                                                                                                                                                                                                                                                                                                                       A;Reference number: A82035;
A;Accession: E82341
                                                                                                                                                                                                                                                                                                                                                                                                   A;Title: DNA Sequence of both chromosomes of the cholera pathogen Vibrio cholerae. A;Reference number: A82035; MUID:20406833; PMID:10952301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hypothetical protein VC0294 [imported] - Vibrio cholerae (strain N16961 serogroup
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A;Title: Complete nucleotide sequences of 93-kb and 3.3-kb plasmids of an enterohemorrha
A;Reference number: Z14127; MUID:98290540; PMID:9628576
A;Accession: T00296
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A; Residues: 1-38 < HEI>
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                                                                                                                                                           A, Map position: 1
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;Residues: 1-236,'0',238-1887,'I',1889-3169 <BUR>
;Cross-references: EMBL:AF074613; PIDN:AAC70163.1
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                                                                                                                                                                                                                                                                                                                                            Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Species: Vibrio cholerae
| Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 02-Feb-2001
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                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                     Cross-references: GB:AE004117; GB:AE003852; NID:g9654695; PIDN:AAF93468.1; GSPDB:GN00
Experimental source: serogroup O1; strain N16961; biotype El Tor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Accession: E82341
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Experimental source: strain EDL933; serotype O157:H7
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                                                    Matches
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nes 7; Conserv
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  23 LFVLNP 28
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                                                    Conservative
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                                                                             3.1%;
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100.0%; Pred. No. 2.7e+02;
tive · 0; Mismatches 0;
                                                                             Score 6; I
                                                    Mismatches
                                                                             DB 2;
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I.; Sellers,
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hypothetical protein TC0165 [imported] - Chlamydia muridarum (strain Nigg)
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C;Species: Staphylococcus aureus
C;Date: 07-Sep-1990 #sequence revision 26-Apr-1996 #text_change 15-Oct-1999
C;Accession: S20796; PQ0040; S58479
R;Kornblum, J.; Projan, S.J.; Kreiswirth, B.N.; Mogazeh, S.L.; Eisner, W.; submitted to the EMBL Data Library, March 1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                agrD
                                                                                                                                                                                                                                                                 A;Title: Molecular analysis and spatial expression pattern of a low-temperature-specific A;Reference number: S40406; MUID:94072734; PMID:8251639 A;Accession: S40406
                                                                                                                                                                                                                                                                                                                                                                      C;Species: Hordeum vulgare (barley)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 24-Sep-1999
C;Accession: S40406
                                                                                                                                                                                                                                                                                                                                                                                                                                     S40406
blt101 protein - barley
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A;Molecule type: DNA
A;Residues: 1-46 <NOV>
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A;Title: The agr P2 operon: an autocatalytic sensory transduction system in Staphylococcu A;Reference number: S58478; MUID:96004766; PMID:7565609
A;Accession: S58479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Reference number: JQ0386; MUID:90158509; PMID:2622452
A;Accession: PQ0040
                                                                                                                                                             A;Cross-references: EMBL:Z25537; NID:g439272; PIDN:CAA80984.1; C;Superfamily: conserved hypothetical protein b2666
                                                                                                                                                                                                                                                                                                                           R.Goddard, N.J.; Dunn, M.A.; Z
Plant Mol. Biol. 23, 871-879,
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A;Accession: S20796
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A; Residues: 1-54 < GOD>
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A; Residues: 1-45 <JAN>
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A; Residues: 1-46 < KOR>
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Best Local
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Genet. 219, 480-485, 1989
                                      132 ILGYIP 137
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                                                                           Similarity 6; Conserv
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43
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             S.; Arvidson,
                                                                       3.1%; 5--
100.0%; Pr/
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100.0%; Pred. N
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Mismatches
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C.; Dodson, R.; Gwinn, M.; Nelson, W.; DeBoy, R.; Kolonay, J.; McClarty, G.; Balzber Nucleic Acids Res. 28, 1397-1406, 2000
A;Title: Genome sequences of Chlamydia trachomatis MoPn and Chlamydia pneumoniae AR39.
A;Reference number: A81500; MUID:20150255; PMID:10684935
A;Status. T. 1132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C;Species: Chlamydia muridarum, Chlamydia trachomatis MoPn C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #cext_change 11-May-2000 C;Accession: H81732 C;Accession: H81732 R;Read_T.D.; Brunham, R.C.; Shen, C.; Gill, S.R.; Heidelberg, J.F.; White,
                A;Cross-references: EMBL:U39649; NID:g1049370; PID:g1049373; PIDN:AAA80385.1; CESP:T23F2
C;Genetics:
                                                                                                                                                                                                               hypothetical protein T23F2.3 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #t
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A; Gene: CESP: T23F2.3
                                                                                                                                        submitted to the EMBL Data Library, Octobe A;Description: The sequence of C. elegans
                                                                                                                                                                                                                                                                                                                                               B
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      submitted to the EMBL Data Library, November 2015 and the EMBL Data Library, November 2015 and the sequence of C. elegans
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A;Experimental source: strain Bristol N2; clone T20D4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Description: The sequence A; Reference number: Z20712
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A;Experimental source: strain Nigg (MoPn)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: DNA
A; Residues: 1-55 <TET>
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C;Species: Caenorhabditis elegans
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                                                    ;Molecule type: DNA
;Residues: 1-57 <DUZ>
                                                                                                      Reference number: Z18608
                                                                                                                                                                                                  Accession:
                                                                                    Status: preliminary; translated
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Best Local (
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Introns: 40/3
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Pred. No.
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Salzberg,
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 RESULT 43
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R;Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; Qiu, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiwani, ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N. J. Bacteriol. 179, 7135-7155, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT
E69043
                                                                                                                                                                                                                                                                       A;Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta A;Reference number: A69000; MUID:98037514; PMID:9371463 A;Accession: E69043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  submitted to the EMBL Data Library, October 1995 A;Description: The sequence of C. elegans cosmid A;Reference number: Z18608
                                                                                                                                      A;Start codon:
                                                                                                                                                                                        A;Cross-references: GB:AE000896; GB:AE000666; NID:g2622424; PIDN:AAB85806.1; PID:g2622434
A;Experimental source: strain Delta H
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A; Residues: 1-69 < MTH >
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A; Residues: 1-57 < DUZ>
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C;Accession: T16930
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                                                                                                                                                                                                                                                                                                                                                                                                                                                conserved hypothetical protein MTH1328 - Methanobacterium thermoautotrophicum
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C;Species: Caenorhabditis elegans
                                                                                                                                                                                                                                                                                                                                                                                                            Species: Methanobacterium thermoautotrophicum;Decies: Methanobacterium thermoautotrophicum;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 22-Oct-1999;Date: 05-Dec-1997 #text_change 22-Oct-1999
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Matches
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                                58 DIFILD
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59 DIFILD
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                                                              Similarity 6; Conserv
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RESULT 44
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R;anonymous, The European Union Arabidopsis Genome Sequencing Consortium, The Cold Nature 402, 769-777, 1999

A;Title: Sequence and analysis of chromosome 4 of the plant Arabidopsis thaliana. A;Reference number: A85001; MUID:20083488; PMID:10617198

A;Accession: F85358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;She, Q.; Singh, R.K.; Confalonieri, F.; Zivanovic, Y.; Allard, G.; Awayez, M. Jong, I.; Jeffries, A.C.; Kozera, C.J.; Medina, N.; Peng, X.; Thi-Ngoc, H.P.; arrett, R.A.; Ragan, M.A.; Sensen, C.W.; Van der Oost, J. submitted to GenBank, April 2001
A,Description: Sulfolobus solfataricus complete genome.
                                                                                                                                                                                                           hypothetical protein T23F2.4 - Caenorhabditie elegans C;Specises: Caenorhabditis elegans C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #t. C;Accession: T16929
                                                                                                             submitted to the EMBL Data Library, October 1995 A; Description: The sequence of C. elegans cosmid T23F2 A; Reference number: Z18608
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A; Accession: C90342
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A; Residues: 1-73 <STO>
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C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Datc: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 17-May-2002
  A; Molecule type: DNA
A; Residues: 1-77 < DUZ>
A; Cross-references: EMI
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                                                           A;Accession: T16929
A;Status: preliminary; translated from GB/EMBL/DDBJ
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;Residues: 1-75 <KUR>
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EMBL: U39649; NID: g1049370; PID: g1049374;
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A;Gene: rep
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C;Superfamily: :
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A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans A;Reference number: A83650; MUID:20512582; PMID:11058132
A;Accession: C84085
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A;Introns: 10/3; 38/3
C;Superfamily: conserved
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Title: Complete nucleotide sequences of 93-kb and 3.3-kb A;Reference number: Z14127; MUID:98290540; PMID:9628576 A;Accession: T00242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rep protein - Escherichia coli plasmid pO157 (fragment).
N;Alternate names: protein E
C;Species: Escherichia coli
C;Date: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change 21-Jul-2000
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A;Residues: 1-81 <MAK>
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100.0%; Pred. No.
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o. 1e+02;
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5. 1.1e+02
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1.1e+02;
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A;Title: The genome sequence of the plant pathogen Xylella fastidiosa. A;Reference number: A82515; MUID:20365717; PMID:10910347 A;Note: for a complete list of authors see reference number A59328 bel. A;Accession: F82571
                                                                                                                                                                                                                                                       hypothetical protein XF2321 [imported] - Xylella fastidiosa (strain 9a5c) C;Species: Xylella fastidiosa C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 20-Aug-2000
                                                                                                                                                                                R;anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequer
                                                                                                                                                                                                                                                                                                                                   RESULT
F82571
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R;Tommerup, N.; Vissing, H.
R;Tommerup, N.; Vissing, H.
Genomics 27, 259-264, 1995
A;Title: Isolation and fine mapping of 16 novel human zinc finger-encoding cDNAs identif A;Reference number: A57785; MUID:96044430; PMID:7557990
                      A;Molecule type: DNA
A;Residues: 1-90 <SIM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Title: Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trac
A;Reference number: A71570; MUID:99000809; PMID:9784136
A;Accession: E71527
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A;Cross-references: GB:AE004043; GB:AE003849; NID:g9107486; PIDN:AAF85120.1; GSPDB:GN001
                                                                                                                                                                                                                                                                                                     hypothetical
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A;Residues: 1-90 <ARN>
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Science 282, 754-759, 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Molecule type: mRNA
A; Residues: 1-87 < RES>
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                                                                  Status: preliminary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cross-references: GB:AE001306; GB:AE001273; NID:g3328748; PIDN:AAC67925.1; PID:g33287
Experimental source: serotype D, strain UW-3/Cx
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Best Local
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Date: 23-Feb-1996 #sequence_revision 23-Feb-1996 #text_change 05-Nov-1999;
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Map position: 19q13.4-19q13.3
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Chlamydia trachomatis
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100.0%; Pr
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f Score 6; DB 2
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submitted to GenBank, June 2000
A, Authors: Ferreira, V.C.A.; Ferro, J.A.; Fraga, J.S.; Franca, S.C.; Franco, M.C.; Frohme J.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laigre Chado, M.A.; Madeira, A.M.B.N.; Madeira, H.M.F.; Marrino, C.L.; Marques, M.V.; Martins, E. A, Authors: Martins, E.M.F.; Matsukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.; P.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A.; Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.E.; de Sa, R.G.; Santelli, R.V.; Sawasaki A; Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silveira, A.A.; da Silva, A.M.; Silva Jr., W.A.; da Silva Jr., W.A.; da
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            M.; Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, A.;Reference number: A59328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C; Genetics:
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Search completed: January 28, 2004, 18:23:32 Job time : 53 secs

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Result
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homo sapien
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RESULT 2
PSK3_ORYSA
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NADE RHOCA
Q03638;
01-JUN-1994
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ACT SITE
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=94253014; PubMed=8195100; Willison J.C., Tissot G.; Willison J.C., Tissot G.; Willison J.C., Tissot G.; Tissot G.
                                                                                                                                                                                                                                                                                                                                                                                                             Pfam; PF02540; NAD synthase; 1.
TIGRFAMS; TIGR00552; nadE; 1.
PROSITE; PS50263; CN HYDROLASE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       between the Swiss Institute of Bioinformatics and the Ethe European Bioinformatics Institute. There are no rest use by non-profit institutions as long as its content modified and this statement is not removed. Usage by a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-JUN-1994 (Rel. 29, Last sequence update) 28-FEB-2003 (Rel. 41, Last annotation updat Glutamine-dependent NAD(+) synthetase (EC 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Biochemical genetics revisited: the use of mutants to study and nitrogen metabolism in the photosynthetic bacteria."; FEMS Microbiol. Rev. 10:1-38(1993).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
STRAIN=ATCC 33303 / B10;
MEDLINE=93159814; PubMed=8431308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              [glutamine-hydrolyzing]).
NADE OR ADGA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PIR; S15555; S15555.
HAMAP; MF_00193; fus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; X59399; CAA42042.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rhodobacter capsulatus (Rhodopseudomonas capsulata).
Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales;
                                                                                                                                                                                                                                                                                                                                                   DOMAIN
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SIMILARITY: Contains 1 CN hydrolase domain.
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PATHWAY: NAD biosynthesis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SWISS-PROT entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the EM
                                                                                                               219
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8; Conserv
                                                                                                                                                       FVLNPDGS 31
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ATP (BY SIMILARITY).
BY SIMILARITY.
; 5791E11F29DB0308 CRC64;
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(EC 6.3.5.1)
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16-OCT-2001 (Rel
16-OCT-2001 (Rel
16-OCT-2001 (Rel
Phytosulfokines;
YJ08 YEAST
P47106;
01-FEB-1996
                                                                                                                                                                                                                                                                                                                                                                                    entities
or send a
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16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Phytosulfokines 3 precursor (Contains: Phytosulfokine-alpha alpha) (Phytosulfokine-a); Phytosulfokine-beta (PSK-beta) (Phytosulfokine-b);
                                                                                                                                                                                                                                                                      PEPTIDE
PEPTIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Buell C.R., Yuan Q., Moffat K.S., Hill J.N., Burr P.C., Zismann V., Pai G., Bowman C.L., Fujii C.Y., Van Aken S Utterback T.R., Khalak H., Feldblyum T.V., Quackenbush Salzberg S.L., Fraser C.M.;
"Oryza sativa chromosome 3 BAC OSJNBb0009F04 genomic se
                                                                                                                                                                                                                                                                                                                                                                                            between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                           YEAST
                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                           MOD RES
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            low-affinity binding sites.";

Proc. Natl. Acad. Sci. U.S.A. 94:13357-13362(1997).

FROMOTES PLANT CELL DIFFERENTIATION, ORGANOGENESIS SOMATIC EMERYOGENESIS AS WELL AS CELL PROLIFERATION.

SOMATIC EMERYOGENESIS AS WELL AS CELL PROLIFERATION.

-!- SUBCELLULAR LOCATION: Secreted (By similarity).

-!- PTM: SULFATION IS IMPORTANT FOR ACTIVITY AND FOR THE BINDING PUTATIVE MEMBRANG RECEPTOR.

-!- PTM: PSK-ALPHA IS PRODUCED BY ENDOPEPTIDASE DIGESTION. PSK-BE PRODUCED FROM PSK-ALPHA BY EXPOPEPTIDASE DIGESTION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDILINE=20200296; PubMed=10734215;
Matsubayashi Y., Takagi L., Sakagami Y.;
"Phytosulfokine-alpha, a sulfated pentapeptide, s
proliferation of rice cells by means of specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oryza sativa (Rice).
Eukaryota; Viridiplantae; Stre
Spermatophyta; Magnoliophyta;
Ehrhartoideae; Oryzae; Oryza.
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                                                                                                                                                        Similarity 7; Conserv
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00296; PubMed=10734215;
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1 22 POTENTIAL.
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Pred. No
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                                                                                                                                                                                    Length 75;
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c high- and
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(Rel. 33, Created)

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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            _LACPL STANDARD; PRT; 163 AA. COAD LACPL STANDARD; PRT; 163 AA. Q88VCB; 15-SEP-2003 (Rel. 42, Created) 15-SEP-2003 (Rel. 42, Last sequence update) 15-SEP-2003 (Rel. 42, Last annotation update) Phosphopantetheine adenylyltransferase (EC 2.7.7.3) (Pantetheine-phosphate adenylyltransferase) (PPAT) (Dephospho-COA pyrophosphorylase).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a cobetween the Swiss Institute of Bioinformatics and the EMBL the European Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and foentities requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
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Huang M.-E., Chuat J.-C., Galibert F.;
"Analysis of a 42.5 kb DNA sequence of chromosome X reveals three
trna genes and 14 new open reading frames including a gene most
probably belonging to the family of ubiquitin-protein ligases.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Saccharomyces cerevisiae (Baker's yeast).
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
                                                                                                                                       Kleerebezem M., Boekhorst J., van Kranenburg R., Molenaar D.,
Kuipers O.P., Leer R., Tarchini R., Peters S.A., Sandbrink H.M.,
Fiers M.W.E.J., Stiekema W., Klein Lankhorst R.M., Bron P.A.,
Hoffer S.M., Nierop Groot M.N., Kerkhoven R., De Vries M., Ursin,
De Vos W.M., Siezen R.J.;
                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
STRAIN=NCIMB 8826 / WCFS1;
MEDLINE=22480296; PubMed=12566566;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; L36344; AAA88740.1; -. EMBL; Z49538; CAA89565.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-FEB-1996 (Rel. 33, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
Hypothetical 13.0 kDa protein in HUL4-GEF1 intergenic
YJR038C OR J1612.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bacteria,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lactobacillus plantarum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COAD OR KDTB OR LP_2133.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PIR; S57057; S57057.
SGD; S0003799; YJR038C.
Hypothetical protein; Transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=4932;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Yeast 11:775-781(1995).
                                                                                   "Complete genome sequence of Lactobacillus plantarum WCFS1.";
Proc. Natl. Acad. Sci. U.S.A. 100:1990-1995(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                          Lactobacillus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local
FUNCTION: Reversibly transfers an adenylyl phosphopantetheine, yielding dephospho-CoA pyrophosphate (By similarity).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      13
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57
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Firmicutes; Lactobacillales; Lactobacillaceae;
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13020 MW;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07CE6ABC5A6F29C7 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 120;
                                     group from ATP to (dPCoA) and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
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Best Local S
Matches 7
                                                                                                                                                    This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on it
                                                  This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Entre European Bioinformatics Institute. There are no restructe by non-profit institutions as long as its content use by non-profit institutions as long as its content modified and this statement is not removed. Usage by and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TUBL1 HORSE STANDARD; PRT; 223 AA.

(9GMS0; O62662;
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
18-FEB-2003 (Rel. 41, Last annotation update)
Ubiquitin carboxyl-terminal hydrolass isozyme L1 (EC
L1) (Ubiquitin thiolesterase L1) (Neuron cytoplasmic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
EMBL; AB049188;
                         entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                            Sato F., Harigai N., Iwa
"cDNA cloning of equine
Submitted (SEP-2000) to
                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9796;
                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Equus caballus (Horse).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Complete proteome
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Transferase; Nucleotidyltransferase; Coenzyme A biosynthesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; AL935258; CAD64494.1; -.
                                                                                                                                                                                                                                                                                    rissue=Brain;
                                                                                                                                                                                                                                                                                                      SEQUENCE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUBUNIT: Homohexamer (By similarity).
SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
SIMILARITY: Belongs to the bacterial coaD family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CATALYTIC ACTIVITY: ATP + pantetheine 4'-phosphate = diphosphate 3'-dephospho-CoA.
PATHWAY: Coenzyme A (CoA) biosynthesis; fourth step.
                                                                                                                                        SIMILARITY: BELONGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             168
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FSSSLIK 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (PGP9.5).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                163
                                                                                                                                                                                                                                                                                                   50-188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ilarity 100.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ş
BAB13757.1;
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                                                                                                                                                                                                                                                                                                                            Iwanaga T., Hasegawa T., Ishida N.;
ine ubiquitin C-terminal hydrolase (PGP9.
to the EMBL/GenBank/DDBJ databases.
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O PEPTIDASE FAMILY C12.
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protein 9.5)
                                                        and
                                                                                                  EMBL
                                                                                                  a collaboration -
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t. outstation -
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RESULT UBLITHED TO PROPERTY OF THE PROPERTY OF
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A Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Bonaldo M.F., Carninci P., Prange C.,
A Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
A Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
A Richards S., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S. W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Vallalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
A Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
A Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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Best Local
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P09936;
01-MAR-1989
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CONFLICT
SEQUENCE
                                                                                                                                                                                                                                                                                                                                TISSUE=Lung, and Muscle;
MEDLINE=22388257; PubMed=12477932;
                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=90303237; PubMed=2163617;
Day I.N.M., Hinks L.J., Thompson R.J.;
"The structure of the human gene encoding protein gene product (PGP9.5), a neuron-specific ubiquitin C-terminal hydrolase.";
Biochem. J. 268:521-524(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Day I.N.M., Thompson A....
"Molecular cloning of cDNA coding
"wroplasmic marker for neurones at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-MAR-1989 (Rel. 10, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Ubiquitin carboxyl-terminal hydrolase isozyme L1 (EC
L1) (Ubiquitin thiolesterase L1) (Neuron cytoplasmic
(PGP 9.5) (PGP9.5).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE OF 12-223 FROM N.A., AND MEDLINE=87080796; PubMed=2947814; Day I.N.M., Thompson R.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pfam; PF01088; Peptidase_C12;
PRINTS; PR00707; UBCTHYDRLASE.
ProDom; PD350662; UCH 1; 1.
PROSITE; PS00140; UCH_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACT
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"The UCH-L1 gene encodes two opposing enzymatic activities alpha-symuclein degradation and Parkinson's disease suscept (2011 11:209-218 (2002)).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lincoln S., Vaughan J., Wood N., Baker M., Adamson J., G
Lynch T., Hardy J., Farrer M.;
"Low frequency of pathogenic mutations in the ubiquitin
terminal hydrolase gene in familial Parkinson's disease.
NeuroReport 10:427-429(1999).
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disease.";
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Butterfield Y.S.N., Krzywinski
Schnerch A., Schein J.B., Jones
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"Generation and initial analysis of
human and mouse cDNA sequences.";
human and mouse cDNA sequences.";
hroc. Natl. Acad. Sci. U.S.A. 99:168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VARIANT TYR-18
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                                                                                                                                                                                                                                                                                                                                FUNCTION: UBIQUITIN-PROTEIN HYDROLASE IS INVOLVED BOTH IN THI
PROCESSING OF UBIQUITIN PRECURSORS AND OF UBIQUINATED PROTEIT
THIS ENZYME IS A THIOL PROTEASE THAT RECOGNIZE AND HYDROLYZE
A PEPTIDE BOND AT THE C-TERMINAL GLYCINE OF UBIQUITIN.
CATALYTIC ACTIVITY: Ubiquitin C-terminal thiolester + H(2)O
                                                                                                                                                                  TISSUE SPECIFICITY: NEURONS AND CELLS OF THE DII NEUROSNOOCRINE SYSTEM AND THEIR TUMORS.
POLYMORPHISM: Variant Met-93 was reported to be Parkinson's disease, but this has nor been prove SIMILARITY: BELONGS TO PEPTIDASE FAMILY C12.
                                                                                                                                                                                                                                                                ubiquitin + a thiol.
SUBCELLULAR LOCATION: Cytoplasmic.
TISSUE SPECIFICITY: NEURONS AND CE
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e J.S., Wilkinson K.D.;
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EMBL; BC006305; AAH06305.1; -.
PIR; A25856; A25856.
HSSP; P15374; 1UCH.
                                                                                                                                                                                                                                                        OPROF9; OPR122;
OPROF9; OPR122;
16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Ubiquitin carboxyl-terminal hydrolase isozyme L1 (EC L1) (Ubiquitin thiolesterase L1) (Neuron cytoplasmic (PGP 9.5) (PGP9.5).
                                                                                                                                                                                                                                                                                                                                                       MOUSE
                                                                         [2]
SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
Desisinger
                                                                                                                MEDLINE-99400551; PubMed=10471497; Saigch K., Wang Y.-L., Suh J.G., Yamanishi T., Sakai Y., Kiyosawa H. Barada T., Ichihara N., Wakana S., Kikuchi T., Wada K.; "Intragenic deletion in the gene encoding ubiquitin carboxy-terminal hydrolase in gad mice."; hydrolase in gad mice."; Nat. Genet. 23:47-51(1999).
                                                                                                                                                                                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRINTS; PRO0707; UBCTHYDRLASE.
ProDom; PD350662; UCH_1; 1.
PROSITE; PS00140; UCH_1; 1.
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SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Hippocampus;
                                                             STRAIN=C57BL/6J; TISSUE=Pituitary;
Marzban G., Grillari J., Reisinger E., Hemetsberger T.,
Hohenwarter O., Katinger H.;
                                                                                                                                                                                                                                              Mus musculus (Mouse).
                                                                                                                                                                                                                                                                                                                                                UBL1
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                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                              NCBI_TaxID=10090;
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                                            hydrolase
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                                                    "Cloning of the mouse homologue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MAIN
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                                          PGP9.5
                                (JUL-1999)
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Rodentia;
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                                                                                                                                                                                                                         Craniata; Vertebrata; Euteleostomi;
Sciurognathi; Muridae; Murinae; Mus
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                                                    of ubiquitin carboxyl-terminal
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protein 9.5)
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RESULT 8
UBL1_RAT
ID UBL1
AC Q009
DT 01-A

UBL1 RAT Q00981; 01-APR-1993

(Rel. 25, Created)

STANDARD;

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RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gasaterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schriml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Blake J., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazazarelli J., Mombaerts P.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyo-oka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA Havashizaki Y.,
RA Havashizaki Y.,
                                                                  Query Match
Best Local S
Matches
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ACT_SITE 161 161
ACT_SITE 176 176
DOMĀIN 37 54
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ACT_SITE
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                                                                                                                                                          DOMAIN
CONFLICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     use by non-profit institutions as long modified and this statement is not removed entities requires a license agreement (See
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Functional annotation of a full-length mouse cDNA collection.";
Nature 409:685-690(2001).
-!- FUNCTION: UBIQUITIN-PROTEIN HYDROLASE IS INVOLVED BOTH IN TH
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                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                  PRINTS; PR00707; UBCTHYDRLASE.
ProDom; PD350662; UCH_1; 1.
PROSITE; PS00140; UCH_1; 1.
                                                                                                                                                                                                                                                                                                                                      Pfam; PF01088; Peptidase
                                                                                                                                                                                                                                                                                                                                                                          MEROPS; C12.001; -. MGD; MGI:103149; Uchl1
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HSSP; P15374; 1UCH.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           between
                                                                                                                                                                                                                                                                                                                                        InterPro; IPR001578; UCH_1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hayashizaki Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CATALYTIC ACTIVITY: Ubiquitin C-terminal thiolester + H(2)O ubiquitin + a thiol.
SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
TISSUE SPECIFICITY: Expressed in brain and testis.
SIMILARITY: BELONGS TO PEPTIDASE FAMILY C12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FUNCTION: UBLQUITIN-PROTEIN HYDROLASE IS INVOLVED BOTH IN THE PROCESSING OF UBLQUITIN PRECURSORS AND OF UBLQUINATED PROTEINS. THIS ENZYME IS A THIOL PROTEASE THAT RECOGNIZE AND HYDROLYZE A PEPTIDE BOND AT THE C-TERMINAL GLYCINE OF UBLQUITIN.
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CFEKNEA 138
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BY SIMILARITY.
BY SIMILARITY.
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UBLOUTTIN BINDING 1
UBLOUTTIN BINDING 2
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SEQUENCE
                                                             01-FEB-1995 (Rel. 31, Created)
01-FEB-1995 (Rel. 31, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Kit ligand precursor (C-kit ligand) (Stem cocell growth factor) (MGF).
KITLG OR SCF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRINTS; PR00707; UBCTHYDRLASE.
ProDom; PD350662; UCH 1; 1.
PROSITE; PS00140; UCH 1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                  Gallus gallus (Chicken).
Eukaryota; Metazoa; Chor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro; IPR001578; UCH_1.
Pfam; PF01088; Peptidase_C12; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                J. Biochem. 112:28-32(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A. MEDLINE=93054416;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-FEB-2003 (Rel. 41, Last annotation update)
Ubiquitin carboxyl-terminal hydrolase isozyme L1 (EC 3.4.19.12)
L1) (Ubiquitin thiolesterase L1) (Neuron cytoplasmic protein 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEROPS; C12
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28-FEB-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FUNCTION: UBIQUITIN-PROTEIN HYDROLASE IS INVOLVED BOTH IN THE PROCESSING OF UBIQUITIN PRECURSORS AND OF UBIQUINATED PROTEINS THIS ENZYME IS A THIOL PROTEASE THAT RECOGNIZES AND HYDROLYZES A PEPTIDE BOND AT THE C-TERMINAL GLYCINE OF UBIQUITIN. CATALYTIC ACTIVITY: Ubiquitin C-terminal thiolester + H(2)O = ubiquitin + a thiol.

SUBCELLULAR LOCATION: Cytoplasmic.
SIMILARITY: BELONGS TO PEPTIDASE FAMILY C12.
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P15374; 1UCH.
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  Aves; Neognathae;
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imoto T., Shirai
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                       Chordata;
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USIQUITIN BINDING 1
UBIQUITIN BINDING 2
W; F1BA04FB55B4625E (
Craniata; Vertebrata; Eutel; Galliformes; Phasianidae;
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                                                                                                             on update)
(Stem cell
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Best Local
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STANDARD,

Q90314; Q90315;

Q90314; Q90315;

28-FEB-2003 (Rel. 41, Created)

28-FEB-2003 (Rel. 41, Last sequence update)

28-FEB-2003 (Rel. 41, Last annotation update)

28-FEB-2003 (Rel. 41, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                            Coturnix coturnix japonica (Japanese
Eukaryota; Metazoa; Chordata; Craniat
                                                                                                                                                                                          KITLG OR SCF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Zhou J., Ohtaki M., Sakurai N
"Sequence of a cDNA encoding
Gene 127:269-270(1993).
  SEQUENCE FROM N.A. (ISOFORMS 1 AND MEDLINE=96283808; PubMed=8679698;
                                                                      NCBI_TaxID=93934;
                                                                                                                 Archosauria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CHAIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PIR; JN0637; JN0637.
InterPro; IPR003452; SCF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; D13516; BAA02733.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DISULFID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DISULFID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF02404; SCF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=93273244; PubMed=7684722;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gallus.
NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 probably interleukins (By similarity).
SUBGUNIT: Homodimer, non-covalently linked (Probable)
SUBGELLULAR LOCATION: Type I membrane protein. Also
secreted soluble form (By similarity).
DEVELOPMENTAL STAGE: ACTS IN THE EARLY STAGES OF HEM
PIM: A soluble form is produced by proteolytic proce
the extracellular domain (By similarity).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FUNCTION: Stimulates the proliferation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SIMILARITY: BELONGS TO THE SCF FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            augment the proliferation of both myeloid and lymphoid hematopoietic progenitors in bone marrow culture. Medicell-cell adhesion. Acts symerojetically with other cyprobable.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 7; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IKENGHL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IKENGHL 184
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200
287
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32328
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225
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Pred. No
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N-LINKED
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    POTENTIAL. CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     chicken stem
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EXTRACELLULAR (POTENTIAL).
                                                                                                                      Craniata; Ver
Galliformes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6AE8556ADC152578 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                          2)
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                                                                                                                                            quail).
ta; Vertebrata;
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(GLCNAC. . .) (POTENTIAL)
(GLCNAC. . .) (POTENTIAL)
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                                                                                                                                                                                                                                        factor)
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Kulik M.J.;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <del>: :</del>
O22A DROME STANDARD; PRT; 397 AA P81909; Q9U6X7; 16-OCT-2001 (Rel. 40, Created) 16-OCT-2001 (Rel. 40, Last sequence update) 16-OCT-2001 (Rel. 40, Last annotation update) Odorant receptor 22a. OR DOR22A.1 OR DOR53 OR AN
                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                               SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                     Growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; U43078; AAC59933.1; -.
EMBL; U43079; AAC59934.1; -.
InterPro; IPR003452; SCF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Biochim. Biophys. Acta 1307:149-151(1996).
                                                                                DROME
                                                                                                                                                                                                                                                                                                                                                                                                    CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                           Alternative
                                                                                                                                                                                                                                                                                                                                                                                                                                    Pfam; PF02404; SCF; 1.
Growth factor; Glycoprotein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Petitte J.N., Kulik M.J.;
"Cloning and characterization of cDNAs encoding two forms of avian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FUNCTION: Stimulates the proliferation of mast cells. Able to augment the proliferation of both myeloid and lymphoid hematopoietic progenitors in bone marrow culture. Mediates also cell-cell adhesion. Acts synergistically with other cytokines, probably interleukins (By similarity).

SUBUNIT: Homodimer, non-covalently linked (Probable).

SUBCELLULAR LOCATION: Type I membrane protein (isoforms 1 and 2) also exists as a secreted soluble form (isoform 1 only) (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            similarity).
ALTERNATIVE PRODUCTS:
Event=Alternative spl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   isoform 1 in SIMILARITY: E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PTM: A soluble
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cell
                                                                                                                              127
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            IsoId=Q90314-1;
                                                                                                                                                                          Similarity
7; Conser
                                                                                                                                             IKENGHL 184
                                                                                                                             IKENGHL 133
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1798
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   n the extracellular domain. BELONGS TO THE SCF FAMILY.
 OR DOR22A.1 OR DOR53 OR AN11 OR CG12193.
                                                                                                                                                                                                                                                          torm
                                                                                                                                                                                                                        32455
                                                                                                                                                                                    100.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence=VSP_006026;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence=Displayed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  splicing; Named isoforms=2;
                                                                                                                                                                      0,08;
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X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           produced
                                                                                                                                                                                                                                                                                                                                         KIT LIGAND.

EXTRACELLULAR (POTENTIAL).

POTENTIAL.

CYTOPLASMIC (POTENTIAL).

BY SIMILARITY.

BY SIMILARITY.
                                                                                                                                                                                     Score 7;
Pred. No
                                                                                                                                                                                                                                                                                                                                                                                                                                     Transmembrane;
                                                                                                                                                                                                                                                          DSRVAVTKTISFPPVAASSLRNDSIGSNTSSNSNK
                                                                                                                                                                                                                                                                      N-LINKED
                                                                                                                                                                                                                                   /FTId=VSP
                                                                                                                                                                                                                                              (in isoform 2)
                                                                                                                                                                                                                        ABA81AEA422A702E
                                                                                                                                                                          red. No. 18
Mismatches
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GGLCNAC...
GGLCNAC...
GGLCNAC...
GGLCNAC...
                                                                                                                                                                                DB 18;
                     update)
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                                                                                                                                                                                                 1;
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                                                                                                                                                                                                 Length 287;
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RA Adams N.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D., Adams N.D., Celniker S.E., Lih P.W., Hoskins R.A., Galle R.F., RA Adams M.D., Celniker S.E., Hichards S., Ashburner M., Henderson S.N., RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., RA George R.A., Chern L.X., Yandell M.D., Zhang Q., Chen L.X., RA Burtin R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D., RA Bardon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D., RA Barlin J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C.., Baldwin D., RA Barlin J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C.., Baldwin D., RA Barlin J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C.., Baldwin D., Ra Borkova D., Botchan M.R., Bouck J., Baryaktaroglu L., Beasley E.M., RA Beson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S., Benos P.V., Berman B.P., Bhandari D., Botchar P., RA Borkova D., Botchan M.R., Bouck J., Baryaktaroglu L., Center A., Chandra I., RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P., RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P., RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P., RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P., Nara R., Chandra I., Bousam D.A., Batler H., Gu Z., Guan P., Harris M., Pollock M., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P., RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M., RA Harris M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A., RA Harris M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A., RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibagyam C., Lasko P., Leviteky A.A., Li J., Li Z., Liang Y., Lin X., Lasko P., Lin X., Howland T.J., Wei M.-H., Jang Y., Lin X., Lasko P., Lin X., Manner B., Spradling A.C., Stapleton M., Strong R., Sun E., Stapleton M., Weinstock G.M., Weinstock G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        genomic DNA sequence.";
Genomics 60:31-39(1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID=7227;
             Clyne P.J., Warr C.G., Freeman M.R.
"A novel family of divergent seven-
odorant receptors in Drosophila.",
Neuron 22:327-338(1999).
-!- FUNCTION: PROBABLE ROLE IN THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=20196006;
Adams M.D., Celnil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=Berkeley;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=99389723;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN=Berkeley;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Drosophila melanogaster (Fruit fly).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                      MEDLINE=99166868; PubMed=10069338;
                                                                                                                         TISSUE-Antenna;
                                                                                                                                                                                                                 Vosshall L.B.,
"A spatial map
                                                                                                                                                                                                                                                   STRAIN=Oregon-R; TISSUE=Antenna; MEDLINE=99189757; PubMed=10089887;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             'Identification of candidate Drosophila olfactory receptors from
                                                                                                                                          DENTIFICATION, AND TISSUE
                                                                                                                                                                                                                                                                                           SEQUENCE
                                                                                                                                                                              96:725-736(1999).
                                                                                                                                                                                                                                                                                                                             nome sequence of Dros
287:2185-2195(2000).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FROM
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                                                                                                                                                                                                                   Amrein H., Morozov P.S., of olfactory receptor ex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PubMed=10731132;
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                                                                                                                                            SPECIFICITY.
                                                                    an M.R., Lessing D., seven-transmembrane
                                                                                                                                                                                                                                                                                           AND
                                                                                                                                                                                                                                                                                           TISSUE
                   ODORANT

    Rzhetsky 
expression i

                                                                                                                                                                                                                                                                                           SPECIFICITY
                 RESPONSE,
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                                                                      Kim J., Ca
proteins:
                                                                                                                                                                                                                 ., Axel R.;
the Drosophila
                   BEING
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                                                                                       Carlson
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                    AN ODORANT
                                                                        candidate
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Smith H.O.,
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                                                                                         J.R.;
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ZNV2 QSNQZ8, Q15919, Q9UC09; Q9UQD3;
Q8-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Endothelial zinc finger protein induced by tu
                                                                                                                                                                                                                                                                                                                                                                                                                  HUMAN
  Mataki C., Murakami T., Umeta
Aburatani H., Hamakubo T., Ko
"A novel zinc finger protein
cells is profoundly induced b
J. Atheroscler. Thromb. 7:97-
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CONFLICT
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TRANSMEM
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                                                                                                TISSUE=Umbilical v
MEDLINE=21319880;
                                                                                                                                                                                                  Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pfam; PF02949; 7tm 6; 1. Transmembrane; G-protein coupled receptor; Olfaction;
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                                                                                                                                                                           NCBI_TaxID=9606
                                                                                                                                                                                                                                        Homo sapiens (Human).
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SIMILARITY: BELONGS TO FAMILY DR-OR OF G-PROTEIN COUPLED
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RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheet T.E.,
RA Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R. A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Hakesley R.W., Touchman J.W., Green B.D., Dickson M.C.,
RA Butterfield Y.S.N., Krzywinski M.I., Schmutz J., Myers R.M.,
"Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences.",
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=92372070; PubMed=1505991;
Lichter P., Bray P., Ried T., Dawid I.B., Ward D.
"Clustering of C2-H2 zinc finger motif sequences
fragile site regions of human chromosomes.";
Genomics 13:999-1007(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Aubry M., Marineau C., Zhang F.R., Zahed L., Figlewicz D., Delattre O., Thomas G., de Jong P.J., Julien J.-P., Rouleau G "Cloning of six new genes with zinc finger motifs mapping to long arms of human acrocentric chromosome 22 (p and q11.2)."; Genomics 13:641-648(1992).
                                                                   or send
                                                                                                                                  between the Swiss Institute of Bloinformat
the European Bioinformatics Institute
use by non-profit institutions as long
modified and this statement is not removed.
                                                                                                                                                                                                                                               This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the El
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Burkhart-Schultz K
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                                                                                                                                                                                                                                                                                                                                                                                                                           FUNCTION: May be involved in transcriptional regulation. SUBCELLULAR LOCATION: Nuclear (Potential).
TISSUE SPECIFICITY: Highly expressed in placenta, follow brain, testis, pancreas, heart, small intestine, muscle, prostate and peripheral blood leukocytes. Not detected i lung, colon, stomach, salivary and thyroid gland.
INDUCTION: By tumor necrosis factor alpha (TWFalpha).
SIMILARITY: BELONGS TO THE KRUEPPEL FAMILY OF C2H2-TYPE
                                                                                                                                                                                                                                                                                                                                                           SIMILARITY: Contains 13 C2H2-type zinc fingers.
                                                                                                                                                                                                                                                                                                                                                                                                    FINGER PROTEINS
AF269249;
                                                                   an
                                                                      email
   AAF88036.1;
                                                                      to license@isb-sib.ch)
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EMBL, BC014280; AAH14280.1; -.
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EMBL; M88357; AAA61315.1; -.
PIR; A42825; A42825.

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InterPro; IPR007086; Znf C2H2.eub.
Pfam; PF00096; zf-C2H2; I3.
PRINTS; PR00048; ZINCFINGER.
ProDom; PD000003; Znf C2H2; 11.
SMART; SM00355; Znf C2H2; 13.
PROSITE; PS00028; ZINC_FINGER C2H2_1; 13.
PROSITE; PS0157; ZINC_FINGER_C2H2_2; 13.
Transcription regulation; DNA-binding; Zinc
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Q1-NOV-1997 (Rel. 35, Created)
Q1-NOV-1997 (Rel. 35, Last sequence update)
Q1-NOV-1997 (Rel. 41, Last annotation update)
QDP-glucuronosyltransferase 1-5 precursor, microsomal (EC (UDPGT) (UGT1*5) (UGT1-05) (UGT1.5) (UGT1A5) (B5).
                                                       Sato H., Koiwai O., Tanabe K., Kashiwamata S.; "Isolation and sequencing of rat liver bilirubin UDP-glucuronosyltransferase cDNA: possible alternate spli
                                                                                                                                                                                                                                                                                     "Drug-responsive and tissue-specific alternative expression multiple first exons in rat UDP-glucuronosyltransferase fami (UGT1) gene complex.";
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Mammalia; Eutheria;
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                                                                                                                                                                            SEQUENCE OF 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE OF 1-286 FROM STRAIN-Wistar;
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                                                                                                                                                                                                           287-531 FROM N.A.
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117:392-399(1995).
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100.0%; Pr
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Rodentia;
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Commun. 169:260-264 (1990)
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Pred. No
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Craniata; Vertebrata; Euteleostomi;
Sciurognathi; Muridae; Murinae; Rattus.
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o. 29;
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01-NOV-1997
01-NOV-1997
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SYNY3
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TRANSMEM CARBOHYD
                                 MEDLINE=96127529; PubMed=8590279;
Kaneko T., Tanaka A., Sato S., Kotani H., Sazuka T.,
Sugiura M., Tabata S.;
"Sequence analysis of the genome of the unicellular
"Sequence analysis of the Genome of the unicellular
synechocystis sp. strain PCC6803. I. Sequence featur
region from map positions 64% to 92% of the genome."
DNA Res. 2:153-166(1995).
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EMBL; M34007;
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                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                          Bacteria; Cyanobacteria; Chroococcales;
NCBI TaxID=1148;
                                                                                                                                                                   Synechocystis sp.
                                                                                                                                                                                  SLR0228
                                                                                                                                                                                                          28-FEB-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Transferase; Glycosyltransferase; Glycoprotein; Transmembrane; Multigene family; Microsome; Alternative splicing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; D38069; BAA07263.1; -.
EMBL; M34007; AAA42312.1; ALT TERM.
INTERPRO; IRR002213; UDP_gluco_trans.
Pfam; PF00201; UDPGT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PROSITE; PS00375; UDPGT; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IsoId=Q64638-1; Sequence=Displayed; SIMILARITY: BELONGS TO THE UDP-GLYCOSYLTRANSFERASE FAMILY.
            FUNCTION: SEEMS (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Event=Alternative splicing; Named isoforms=1;
Comment=A number of isoforms may be produced. Isoforms have
different N-terminal domain and a common C-terminal domain of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          beta-D-glucuronoside.
SUBCELLULAR LOCATION: Microsomal.
ALTERNATIVE PRODUCTS:
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  COFACTOR: BINDS 1 ZINC
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7 (Rel. 35, Last sequ
3 (Rel. 41, Last anno
ion protein ftsH homo
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  ION (POTENTIAL)
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N-LINKED (
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                         AN ATP-DEPENDENT
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                         METALLOPEPTIDASE
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Best Local S
Matches 7
                                                                                       MEDLINE=93316856; PubMed=8392140;
Koster M., van de Vossenberg J., Leong J., Weisbeek P.
"Identification and characterization of the pupB gene
inducible ferric-pseudobactin receptor of Pseudomonas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NP BIND
METAL
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TRANSMEM
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                                                                                                                                                                                                                                                                     Bacteria; Proteobacteria; Pseudomonadaceae; Pseudomonadaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                             P38047;
01-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PSEPU
                                                                                                                                                                                     STRAIN=WCS358;
                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                   Pseudomonas
                                                                                                                                                                                                                                                                                                                                                          Ferric-pseudobactin
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Pfam; PF01434; Peptidase_M41; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                            NCBI_TaxID=303;
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InterPro; IPR003959;
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  . Microbiol. 8:591-601(1993). FUNCTION: SPECIFIC RECEPTOR PSEUDOBACTIN EN8 AND FERRIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SITE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUBCELLULAR LOCATION: Integral membrane protein. SIMILARITY: BELONGS TO THE AAA FAMILY OF ATPASES
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MB; TIGR01241; Ft
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PS00674; AAA;
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(Rel. 30, Last sequence update)
(Rel. 41, Last annotation updat
dobactin BN7/BN8 receptor precur
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AAA_sub.
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CYTOPLASMIC (POTENTIAL).

ATP (POTENTIAL).

ZINC (CATALYTIC) (BY SIMII BY SIMILARITY.

ZINC (CATALYTIC) (BY SIMII BY SIMILARITY.

ZINC (CATALYTIC) (BY SIMII GENERAL STREET).
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CYTOPLASMIC (POTENTIAL)
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  FOR THE SIDEROPHORES FERRIC PSEUDOBACTIN BN7, IRON CHELATING
                                                                                                                                                                                                                                                                                                                                                        n update)
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                                                                                                                                     Weisbeek P.J.;
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CCC 1-1
                                                                                        RA Bisen J., Heidelberg J.F., Alley M.R.K., Ohta N., Maddock J.R., RA Dotocka I., Nelson W.C., Newton A., Stephens C., Phadke N.D., Ely B., RA DeBoy R.T., Dodson R.J., Durkin A.S., Gwinn M.L., Haft D.H., RA Kolonay J.F., Smit J., Craven M.B., Khouri H., Shetty J., Berry K., RA Witterback T., Tran K., Wolf A., Vamathevan J., Ermolaeva M., White O., Salzberg S.L., Venter J.C., Shapiro L., Fraser C.M., "Complete genome sequence of Caulobacter crescentus."; L. Proc. Natl. Acad. Sci. U.S.A. 98:4136-4141(201).

C. -!- FUNCTION: Through the carboxylation of phosphoenolpyruvate (PEP) it forms oxaloacetate, a four-carbon dicarboxylic acid source for C. the tricarboxylic acid cycle.

C. -!- CATALYTIC ACTIVITY. December 1.
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-FEB-2003
28-FEB-2003
28-FEB-2003
                                                                                                                                                                                                                                                             (1)
SEQUENCE FROM N.A.
STRAIN=ATCC 19089 / CB15;
MEDLINE=21173698; PubMed=11259647;
MEDLINE=2173698; PubMed=11259647;
Laub
T. Laub
T. Alley V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                        Caulobacteraceae;
NCBI_TaxID=155892;
                                                                                                                                                                                                                                                                                                                                                                          Bacteria; Proteobacteria; Alphaproteobacteria; Caulobacterales; Caulobacteraceae; Caulobacter.
                                                                                                                                                                                                                                                                                                                                                                                                                         Phosphoenolpyruvate carboxylase PPC OR CC1493.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q9A871;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pfam; PF00593; TonB_dep_Rec; 1.
prOSITE; PS00430; TONB_DEPENDENT_REC_1; FALSE_NEG.
pROSITE; PS001156; TONB_DEPENDENT_REC_2; 1.
Outer membrane; Iron transport; Transport; TonB box; Signal; Receptor.
              This SWISS-PROT entry is copyright.
                                             -!- PATHWAY: Tricarboxylic acid cycle.-!- SIMILARITY: BELONGS TO THE PEPCASE FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                          Caulobacter crescentus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entities requires a license agreement
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULES THAT ALLOW THE ORGANISM TO EXTRACT ENVIRONMENT, SPECIALLY UNDER IRON-RESTRICTED SUBCELLULAR LOCATION: Outer membrane. INDUCTION: BY IRON LIMITATION IN ADDITION TO OF THE TWO COGNATE PSEUDOBACTINS BN8 OR BN7.
                                                                          CATALYTIC ACTIVITY: Phosphate + oxaloacetate phosphoenolpyruvate + CO(2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OF THE TWO COGNATE PSEUDOBACTINS BN8 OR BN7. SIMILARITY: LOCAL TO OTHER TONB-DEPENDENT RECEPTOR PROTEINS
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792
809 AA;
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(Rel. 41, Last sequence update)
(Rel. 41, Last annotation updat
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809
   Institute of
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Pred. No.
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45;
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white O.,
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Best Local Similarity
Matches 7; Conserv
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HAMAP; MF_00595; -; 1.

InterPro; IPR001149; PEPCASE.

Pfam; PF00311; PEPCASES; 1.

PRINTS; PR00150; PEPCASE 1; 1.

PROSITE; PS00793; PEPCASE 2; 1.

PROSITE; PS00393; PEPCASE 2; 1.
                                                                                                                                       Waterston
Submitted
                                                                                                                                                                                                                                                           Starr D.A., Hermann G.J., Malone C.J., Fixsen W., Horvitz H.R., Han M., "unc-83 encodes a novel component of the nuclear essential for proper nuclear migration."; Development 128:5039-5050(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q23064; Q95wB6;
15-SEP-2003 (Rel. 42, Created)
15-SEP-2003 (Rel. 42, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
Nuclear migration protein unc-83 (Uncoordinated
UNC-83 OR WOIAIL 3
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ACT_SITE
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SEQUENCE
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Eukaryota; Metazoa; Nematoda; Chromadorea;
Rhabditidae; Peloderinae; Caenorhabditis.
                                                                                                                                                                                                                                                   Development [2]
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MEDLINE=21614706; PubMed=11748140;
Vermann G.J., Malone C.J.,
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TIGR; CC1493; -.
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                                                                                                                                                                                               Submitted
                                                                                                                                                                                                           Blanchard
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                                                                                                                                                                    REVISIONS
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mitted (JUN-2002) to the EMBL/GenBank/DDBJ databases. PUNCTION: Involved in nuclear migration during development and thereafter. Not required for centrosome attachment to the nucleus Probably recruited to the nuclear membrane by unc-84. May participate to nuclear migration via its interaction with unc-84, which possibly disrupts the interaction between unc-84 and anc-1 and therefore frees the nucleus form the cytoskeleton and allows the nuclear migration to proceed.

SUBCELLULAR LOCATION: Type IV membrane protein (Potential). The transmembrane domain associates with the nuclear envelope.
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5. 49;
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                                                                                                                                                                                                                                                                                                                    Fixsen W.,
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Best Local :
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                   "Chloroplast gene organization deduced liverwort Marchantia polymorpha chlorop Nature 322:572-574 (1986).
                                                                                                                                                                                                                                                                                                                                                                                                           P12221; Q9T2G3;
01-OCT-1989 (Rel. 12,
01-OCT-1989 (Rel. 12,
16-OCT-2001 (Rel. 40,
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DOMAIN
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                                                                                                                           Ohyama K., Fukuzawa H
Umesono K., Shiki Y.,
                                                                                                                                                                                                                                              Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Marchantiophyta; Marchantiineae; Marchantiidae; Marchantiales; Marchantiineae; Marchantiaceae; Marchantia
                                                                                                                                                                                                                                                                                                                                           Marchantia polymorpha (Liverwort)
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                                                                                                                                                                                                                           NCBI_TaxID=3197;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE SPECIFICITY: Predominantly expressed in migratory nuc First expressed at the nuclear envelope of migrating hyp7 nuthen, at the bean embryonic stage, it is expressed in hyp7 c P cells and intestinal cells. In adults, it is expressed in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEVELOPMENTAL STAGE: Expressed in embryos and adults.
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BELONGS TO THE YCF1 FAMILY
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156
918
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                                                                                                                                     H., Kohchi
., Takeuchi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
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Last annotation update
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             Created)
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COILED COIL (POTENTIAL).
COILED COIL (POTENTIAL).
Missing (in isoform b).
/FTId=VSP_007083.
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Missing (In isoform c)
/FTId=VSP_007084.
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                                                             deduced from chloroplast
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                                                                                                                                Shirai
Chang Z
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                                                                                                                                                        Ξ.
                                                                                        complete
                                                                  DNA. ";
                                                                                                                                     Aota
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migrating hyp7 nuclei,
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Matches 7
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Q57523;
Q1-NOV-1997
Q1-NOV-1997
28-FEB-2003
                                                                                                                                                                                                                                                                                                                      MEDLINE=9535630; PubMed=7542800;
Fleischmann R.D., Adams M.D., White O., Clayton R.A., Kirkness E.F., Fleischmann R.D., Adams M.D., White O., Clayton R.A., Merrick J.M., Kerlavage A.R., Bult C.J., Tomb J.-F., Dougherty B.A., Gocayne J.D., McKenney K., Sutton G., Fitzhugh W., Fields C.A., Gocayne J.D., Scott J.D., Shirley R., Liu L.-I., Glodek A., Kelley J.M., Weidman J.F., Phillips C.A., Spriggs T., Hedblom E., Cotton M.D., Utterback T.R., Hanna M.C., Nguyen D.T., Saudek D.M., Brandon R.C., Fine L.D., Fritchman J.L., Fuhrmann J.L., Geoghagen N.S.M., Gnehm C.L., McDonald L.A., Small K.V., Fraser C.M., Smith H.O., Venter J.C.;
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the European Bioinformatics Institute. There are no restrictions
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ntities requires a license agreement (See http://www.isb-sib.ch/an
or send an email to license@isb-sib.ch).
                                                                                                                                                 Gray C., Fountoulakis M.; "Two-dimensional map of the proteome of Haemophilus influenzae."; Electrophoresis 21:411-429(2000).
                                                                                                                                                                                  MEDLINE-20137488; PubMed=10675023;
Langen H., Takace B., Fver Sray C., Fort
                                                                                                                                                                                                                                                                     Rd.";
Science
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=Rd / KW20 / ATCC 51907;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Haemophilus influenzae.
Bacteria; Proteobacteria;
Pasteurellaceae; Haemophi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             HAEIN
                                                                                 This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EN
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                                                                                                                                                                                                                                                                                                    "Whole-genome random sequencing and assembly of Haemophilus influenzae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HI0696.
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                                                                                                                                 SIMILARITY: STRONG, TO E.COLI YTFN
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(Rel. 35, Last sequence update)
(Rel. 41, Last annotation update)
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100.0%; Pr
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; Pred. No. 57;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              THIS ORF IS IN TWO PARTS: ORF 1068 (C-TERMINAL). IT COULD BE DUE TO A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRT;
                                                                                                                                                                                                   Berndt P.,
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). 57;
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3_EPTBU
                                               Pfam; PF00207; A2M; 1.
Pfam; PF01835; A2M N; 1.
Pfam; PF01821; ANATO; 1.
Pfam; PF01759; NTR; 1.
ProDom; PD003264; Anaphylatoxin; 1
SMART; SM00104; ANATO; 1.
SMART; SM00104; ANATO; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             P98094;
01-NOV-1995
01-NOV-1995
15-SEP-2003
                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EM the European Bioinformatics Institute. There are no restruse by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entities requires a license agreement (See http://www.isb-or send an email to license@isb-sib.ch).
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PIR; A64157; A64157.
TIGR; H10696; -.
Pfam; PF04357; DUF490; 1.
             PROSITE; PS00477; ALPHA 2 MACROGLO; PROSITE; PS01177; ANAPHYLATOXIN 1; PROSITE; PS01178; ANAPHYLATOXIN 2;
                                                                                                                                                                                              EMBL; Z11595; CAA77677.1; ALT_SEQ.
EMBL; Z11596; CAB63257.1; ALT_SEQ.
PIR; S21045; S21045.
HSSP; P01024; 1C3D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Isolation of a hagfish gene that encodes a complement EMBO J. 11:829-837(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ishiguro H., Kobayashi K., Suzuki M., Titani
Kurosawa Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A., AND PARTIAL SEQUENCE MEDLINE=92192016; PubMed=1372251;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Myxinidae; Eptatretinae;
NCBI_TaxID=7764;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota;
Myxinidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Complement
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Complement
                                                                                                                                           InterPro; IPR001134;
                                                                                                                                                        InterPro; IPR001599;
                                                                                                                                                                      InterPro;
                                                                                                                                                                                 InterPro;
                                                                                                                                                                                                                                                                                                                                                                   BOTH PROTEINS.
- SIMILARITY: TO
- SIMILARITY: CO
                                                                                                                                                                                                                                                                                                                                                                                                                            J. 11.829-837(1992).

FUNCTION: C3 PLAYS A CENTRAL ROLE IN THE ACTIVATION OF THE COMPLEMENT SYSTEM. AFTER ACTIVATION (C3B), IT CAN BIND COVA COMPLEMENT SYSTEM. THIOLESTER, TO CELL SURFACE CARBOHYDRATES VIA ITS REACTIVE THIOLESTER, TO CELL SURFACE TO BEDRESENT TH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EPTBU
                                                                                                                                                                                                                                                                                                                                                                                                         IMMUNE AGGREGATES. CYCLOSTOMATES C3 COMMON ANCESTOR OF MAMMALIAN C3 AND
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7; Conserv
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                                                                                                                                                                     IPR002890;
IPR000020;
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milarity 100.0%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             burgeri (Inshore hagfish).
Metazoa; Chordata; Craniata;
Eptatretinae; Eptatretus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C
 pathway;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (Rel. 32, Created)
(Rel. 32, Last sequence update)
(Rel. 42, Last annotation updat)
C3 (Contains: C3A anaphylatoxin)
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 Plasma; Inflammatory response; Glycoprotein,
                                                                                                                                         Netrin_C.
                                                                                                                                                          Anaphylatoxin.
MacrogloblnA2.
                                                                                                                                                                                    A2M
                                                                                                                                                                                                                                                                                                                                                                                 C5 AND ALPHA-2-MACROGLOBULIN
                                       2 MACROGLOBULIN;
                                                                                                                                                                                                                                                                                                                                                                   Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             st annotation update) (C3A anaphylatoxin) (
                                                                                                                                                                                                                                                                                                                                                                  anaphylatoxin-like domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 7; DB 1; Pred. No. 67; 0; Mismatches
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5. 67;
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RESULT
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AC Q42509;
AC Q42509;
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last amoutation update)
DE Low-temperature induced protein lt101.1 (Blt101) (Salt-stress induced hydrophobic peptide ESI3).
GN LT101.1 OR LT101 OR ESI3.
OS Hordeum vulgare (Barley), and
OS Lophopyrum elongatum (Tall wheatgrass) (Argopyrum elongatum).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Construction of the control of the co
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Best Local &
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SPECIES-L.elongatum; TISSUE-Root; MEDLINB-94211914; PubMed-8159795; Gullick P.J., Shen W., An H.; "ESI3, a stress-induced gene from Lophopyrum elongatum."; Plant Physiol. 104:799-800(1994).
                                                                                                                                                                                      SPECIES=H.vulgare; STRAIN=cv. Igri; Brown A.P.C., Dunn A.M., Goddard N.J., Hughes M.A.; Brown A.P.C. of a novel low-temperature-response element promoter of the barley gene ltl01.1."; Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                      SPECIES-H. vulgare; STRAIN-cv. Igri; TISSUE-Meristem; MEDLINE-94072734; PubMed-8251639; Goddard N.J., Dunn A.M., Zhang L., White A.J., Jack P.L., Hu "Molecular analysis and spatial expression pattern of a low-temperature-specific barley gene, bit101."; Plant Mol. Biol. 23:871-879(1993).
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100.0%; Pr
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PROPERDIN-BINDING.
INTERCHAIN (BY SIMILARITY).
BY SIMILARITY.
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GAMMA CHAIN (BY SIMILARITY).
C3A ANAPHYLATOXIN (BY SIMILARITY).
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W; 21F30FAB72417358 CRC64;
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BETA CHAIN (BY SIMILARITY)
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Matches 6
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15-JUL-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (NOV-1995) to the EMBL/GenBank/DDBJ databases.
-!- SUBCELLULAR LOCATION: Integral membrane protein (Potential).
-!- SIMILARITY: BELONGS TO THE UPF0057 (PMP3) FAMILY.
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EMBL; U00966; AAA21847.1; -.
PIR; S40406; S40406.
InterPro; IPRO00612; UPF0057.
Pfam; PF01679; UPF0057; 1.
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                                                   Pfam; PF01679; UPF0057; 1.
PROSITE; PS01309; UPF0057; 1.
Hypothetical protein; Transmembrane.
TRANSMEM 4 24
                                                                                                                                                                               EMBL; U39649; AAA80385.1; -. PIR; T16928; T16928. WormPep; T23F2.3; CE04998.
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Eukaryota; Metazoa; Nematoda; Chromadorea;
Rhabditidae; Peloderinae; Caenorhabditis.
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STRAIN=Bristol N2;
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T23F2.3.
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15-JUL-1998
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                          TRANSMEM
                                                                                                                                                       InterPro; IPR000612; UPF0057.
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(Rel. 36, Last sequence update)
(Rel. 36, Last annotation update)
11 6.3 kDa protein T23F2.3 in chromosome
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YCU4_CAEEL
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15-JUL-1998
                                                 Eukaryota; Metazoa; Nemat
Rhabditidae; Peloderinae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (NOV-1995) to the EMBL/GenBank/DDBJ databases -!- SUBCELLULAR LOCATION: Integral membrane protein (Poi-i- SIMILARITY: BELONGS TO THE UPF0057 (PMP3) FAMILY.
SEQUENCE FROM N.A. STRAIN=Bristol N2;
                                                                                   Hypothetical
T23F2.5.
                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; U39649; AAA80386.1; ALT_INIT.
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Q22701;
                                  NCBI_TaxID=6239;
                                                                       Caenorhabditis elegans.
                                                                                                                                                                                                                                                                                                                     SEQUENCE
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InterPro; IPR000612; UPF0057.
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                                                                                                                                                                                                                                                                                                                                                         Hypothetical protein; Transmembrane.
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E; PS01309; UPF0057; 1.
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1 6.3 kDa protein T23F2.5 in chrom
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6299 MW;
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TO THE UPF0057 (PMP3) FAMILY.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-JUL-1998
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16-OCT-2001
                                                                                                           between the Swiss Institute of Bioinformatics the European Bioinformatics Institute. There as use by non-profit institutions as long as i modified and this statement is not removed. Use entities requires a license agreement (See http or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  deltaH: functional analysis and comparative genomics.";
J. Bacteriol. 179:7135-7155(1997).
-!- SIMILARITY: BELONGS TO THE PBSX(XRE) FAMILY OF TRANSCRIPTIONAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Submitted (NOV-1995) to the EMBL/GenBank/DDBJ databases -!- SUBCELLULAR LOCATION: Integral membrane protein (Pot-!- SIMILARITY: BELONGS TO THE UPF0057 (PMP3) FAMILY.
                                     EMBL; AE000896; AAB85806.1;
                                                                                                                                                                                                                                                                                                                                                               This SWISS-PROT entry is copyright. It is produced through
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Pfam; PF01679; UPF0057; 1.
PROSITE; P801309; UPF0057; 1.
Hypothetical protein; Transmembrane.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=98037514; PubMed=9371463;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Methanobacterium thermoautotrophicum
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RA Mayer K.F.X., Schueller C., Wambutt R., Murphy G., Volckaert G.,
RA Mayer K.F.X., Schueller C., Wambutt R., Murphy G., Volckaert G.,
RA Melchselgartner M., de Simone V., Obermaier B., Mache R., Mueller M.,
RA Welchselgartner M., de Simone V., Obermaier B., Mache R., Mueller M.,
RA Weichselgartner M., de Simone V., Obermaier B., Mache R., Mueller M.,
RA Weichselgartner M., De Prez-Aloneo M., Boutry M., Bancroft I.,
RA Van der Schueren J., Zimmermann W., Wedler H., Ridley P.,
RA Van der Schueren J., Grymonprez B., Chuang Y.-J., Vandenbussche F.,
RA Van der Schueren J., Grymonprez B., Chuang Y.-J., Vandenbussche F.,
RA Weitzenegger T., Bothe G., Ramsperger U., Hilbert H., Braun M.,
RA Holzer E., Brandt A., Peters S., van Staveren M., Dirise W.,
RA Holzer E., Brandt A., Peters S., van Staveren M., Dirise W.,
RA Mocijman P., Klein Lankhorst R., Rose M., Hauf J., Koetter P.,
RA Mocijman P., Klein Lankhorst R., Rose M., Lamberth S., Van den Daele H.,
RA De Koyser A., Buysshaert C., Gielen J., Villarroel R., De Clercq R.,
RA De Koyser A., Buysshaert C., Gielen J., Villarroel R., De Clercq R.,
RA Van Montagu M., Rogers J., Cronin A., Quail M., Bray-Allen S.,
RA Clark L., Doggett J., Hall S., Kay M., Lemard N., McLay K.,
RA Clark L., Doggett J., Hall S., Kay M., Lemard N., McLay K.,
RA Dose S., de Haan M., Maarse A.C., Schaefer M., Mueller Auer S.,
RA Borkova D., Bloecker H., Scharfe M., Grimm M., Loebnert T.-H.,
RA Borkova D., Bloecker H., Scharfe M., Grimm M., Loebnert T.-H.,
RA Masenet O., Quigley F., Clabauld G., Muendlein A., Casacuberta E.,
RA Gibbons T., Weber N., Vandenbol M., Bargues M., Terol J., Torres A.,
RA Fishman D., Hasse D., Lemcke K., Mewes H.-M., Stocker S.,
RA Fishman D., Hasse D., Lemcke K., Mewes H.-M., Stocker S.,
RA Fishman P., Benta P., Colabauld G., Muendlein A., Stocker S.,
RA Merin J., Sheet P., Cordes M., Abu-Threidsh J.,
RA Merin J., Sheet P., Cordes M., Abu-Threidsh J.,
RA Merin J., Sheet P., Cordes M., Stock
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Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosideurosids II; Brassicales; Brassicaceae; Arabidopsis.
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SMART; SM00530; HTH_XRE; 1.
Hypothetical protein; Transcription regulation; DNA-binding;
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P79688;
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PROSITE; PS01309; UPF0057; 1.

Hypothetical protein; Transmembrane.
TRANSMEM 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Du H., Ali J., Berghoff A., Jones K., Drone K., Cotton M., Josh Antonoiu B., Zidanic M., Strong C., Sun H., Lamar B., Yordan C., Ma P., Zhong J., Preston R., Vil D., Shekher M., Matero A., Shal Swaby I.K., O'Shaughnessy A., Rodriguez M., Hoffman J., Till S., Granat S., Shohdy N., Hasegawa A., Hameed A., Lodhi M., Johnson Chen E., Marra M., Martienssen R., McCombie W.R.; "Sequence and analysis of chromosome 4 of the plant Arabidopsis
                             This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for comentities requires a license agreement (See http://www.isb-sib.ch/anor send an email to license@isb-sib.ch).
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28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
28-FEB-2003 (Rel. 41, Last annotation update)
Cardiotoxin homolog TA-ctx-like precursor.
Bungarus multicinctus (Many-banded krait).
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-!- SUBCELLULAR LOCATION: Integral
-!- SIMILARITY: BELONGS TO THE UPFO
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Biochem. Mol. Biol. Int. 40:1271-1276(1996)
-i- SUBCELLULAR LOCATION: Secreted.
-i- TISSUE SPECIFICITY: Expressed by the ve
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MEDLINE=97142106; PubMed
Chang L.S., Lin J.;
"cDNA sequence analysis
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Lepidosauria; Squamata; Scleroglossa; Serpentes; Colubroidea;
 EMBL; Y10870;
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InterPro; IPR000612; UPF0057.
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THE UPF0057 (PMP3) FAMILY.
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loffman J., Till S.,
Lodhi M., Johnson A.,
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HSSP; P01430,
InterPro; IPR003571; -
R Pfam; PF00087; toxin; 1.
JR ProDom; PD000206; Snake toxin; 1.
DR PROSITE; PS00272; SNAKE TOXIN; 1.
ET SIGNAL 1 21 BY SIMILARITY.
FT CHAIN 22 86 CARDIOTOXIN HOMOLOG TA-(
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NXH1_BUNMU
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-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Expressed by the venom glan-
-!- SIMILARITY: Belongs to the snake toxin family.
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"The cDNA cloning and
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28-FEB-2003 (Rel. 41, Last sequence upda
28-FEB-2003 (Rel. 41, Last annotation up
Short neurotoxin homolog NTL1 precursor.
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MEDLINE=99060733; PubMed=9844743;
                                                                                                                                                                                                    Toxin;
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                                                                                                                                                                                                                                                           Pfam; PF00087; toxin;
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GO; GO:0003700; F:transcription factor activity
GO; GO:0006355; P:regulation of transcription,
InterPro; IPR007087; Znf C2H2.
InterPro; IPR007086; Znf C2H2 sub.
Pfam; PF00096; zf-C2H2; 3.
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                                                                                                                                                                                                                                                                     PROSITE; PS00028; ZINC_FINGER_C2H2_1; 3.
PROSITE; PS50157; ZINC_FINGER_C2H2_2; 3.
Transcription regulation; DNA-binding; Zinc-finger; Metal-binding;
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PIR; I38941; I38941.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Isolation and fine mapping of 16 novel cDNAs identify putative candidate genes malignant disorders.";
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Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                         Nuclear protein; Repeat.
                                                                                                                                                                                                                                                                                                                                      SMART;
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C2H2-TYPE.
C2H2-TYPE.
42B9C4E1AC9A92B3 CRC64;
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Wood D.W., Setubal J.C., Kaul R., Monks D.E., Kitajima J.P., Okura V.K., Zhou Y., Chen L., Wood G.E., Almeida N.F., Jr., Woo L., Chen Y., Paulsen I.T., Eisen J.A., Karp P.D., Bovee D. Sr., Chapman P., Clendenning J., Deatherage G., Gillet W., Grant C., Kutyavin T., Levy R., Li M.-J., McClelland E., Palmieri A., Kaymond C., Rouse G., Seenphimmachak C., Wu Z., Romero P., Gordon D. Zhang S., Yoo H., Tao Y., Biddle P., Jung M., Krespan W., Perry M., Gordon-Kamm B., Liao L., Kim S., Hendrick C., Zhao Z.-Y., Dolan M., Chumley F., Tingey S.V., Tomb J.-F., Gordon M.P., Olson M.V., Negror F.
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Hwang I., Cook D.M., Farrand S.K.;
"A new regulatory element modulates homoserine l
autoinduction of Ti plasmid conjugal transfer.";
J. Bacteriol. 177:449-458(1995).
                                                                                                                                                                                                                                                                                                        Goodner B., Hinkie G., Gattung S., Miller N., Blanchard M., Qurollo B., Goldman B.S., Cao Y., Askenazi M., Halling C., Mullin L. Houmiel K., Gordon J., Vaudin M., Iartchouk O., Epp A., Liu F., Wollam C., Allinger M., Doughty D., Scott C., Lappas C., Markelz B., Wollam C., Crowell C., Gurson J., Lomo C., Sear C., Strub G.,
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15-SEP-2003 (Rel. 42, Last annotation
                           EMBL; AF010180; AAC17210.1; -.
EMBL; AE009431; AAL46367.1; -.
EMBL; AE007939; AAK91095.1; -.
PIR; A13243; A13243.
PIR; T03423; T03423.
Conjugation, Transcription regulation; Repressor; Plasmid;
                                                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
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                                                                                                                                                                                                                                                                                                                                                                                              "Genome sequence of the plant pathogen and biotechnology agent Agrobacterium tumefaciens C58.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=21608551; PubMed=11743194;
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ens (strain C58 / ATCC 33970).
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6FD02DF26C88F291 CRC64;
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Oxidoreductase; Monooxygenase.
Oxidoreductase; Monooxygenase.
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-i- FUNCTION: Not known.
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MEDLINE=90382694; PubMed=2205538;
Stainthorpe A.C., Lees V., Salmond G.P.C.,
Stainthorpe A.C., and a second control of the second control of 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the European Bioinformatics Institute.
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Merkx M., Lippard S.J.;
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(Rel. 41, Last ann
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Hayashi T., Makino K., Ohnishi M., Kurokawa K., Ishii K., Yokoyama K.,
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MEDLINE-21074935; PubMed-1120555;
Perna N.T., Plunkett G. III, Burland V., Mau B., Glasner J.D.,
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Yamamoto Y., Aiba H., Baba T., Hayashi K., Inada T., Isono K.,
Itoh T., Kimura S., Kitagawa M., Makino K., Miki T., Mitsuhashi N.,
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Escherichia coli O157:H7,
Shigella flexneri.
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EMBL; AE015274; AAN440
PIR; AE5899; AE5899.
PIR; C65031; C65031.
PIR; F91054; F91054.
HSSP; P37332; 1FQT.
                                                                                                                                                                                                              01-DEC-1992 (Rel. 24, Created)
01-DEC-1992 (Rel. 24, Last sequence update)
01-DEC-1992 (Rel. 24, Last annotation update)
Hypothetical 12.4 kDa protein.
Cymbidium mosaic virus (strain Singapore).
Viruses; ssRNA positive-strand viruses, no DNP
                                                                                                                                                                                                                                                                                                                      Q00479;
01-DEC-1992
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"Genome
                                             MEDIINE=92256805; PubMed=1581564; Neo K.K., Wong S.M., Wu M.; Nucleotide sequences of the two ORFs gene of cymbidium mosaic virus."; Plant Mol. Biol. 18:1027-1029(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          through comparison with genomes of Escherichia coli K12 and OI57.";
Nucleic Acids Res. 30:4432-4441(2002).

-i- FUNCTION: PART OF MULTICOMPONENT 3-PHENYLPROPIONATE DIOXYGENASE.

-i- FUNCTION: PART OF MULTICOMPONENT 3-PHENYLPROPIONATE DIOXYGENASE.

THAT CONVERTS 3-PHENYLPROPIONIC ACID (PP) INTO CIS-3-(3-
CARBOXYETHYL)-3,5-CYCLOHEXADIENE-1,2-DIOL (PP-DIHYDRODIOL). THIS
PROTEIN SEEMS TO BE A 2FE-2S FERREDOXIN.

-i- PATHWAY: 3-phenylpropionic acid catabolism.

-i- SUBUNIT: THIS DIOXYGENASE SYSTEM CONSISTS OF FOUR PROTEINS: THE
TWO SUBUNITS OF THE HYDROXYLASE COMPONENT (HCAE AND HCAF), A
FERREDOXIN (HCAC) AND A FERREDOXIN REDUCTASE (HCAD).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collable between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for conmodified and this statement is not removed. Usage by and for conmodified and this statement is not removed.
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WETAL 42 42 IRON-SULFUR (2FE
WETAL 44 44 IRON-SULFUR (2FE
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SIMILARITY: BELON
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tic hydrocarbons catabolism; Electron transport; Metal-binding;
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AAN44086.1; -.
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IRON-SULFUR (2FE-2S)
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RX MEDLINE-98044033; PubMed=9384377;
RA Kunst F. Ogasawara N., Moszer I., Albertini A.M., Alloni G.,
RA Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.,
RA Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.,
RA Borriss R., Boursier L., Brans A., Braun M., Brignell S.C., Bron S.,
RA Borriss R., Boursier L., Brans A., Braun M., Brignell S.C., Bron S.,
RA Choi S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,
RA Choi S.K., Codani J.J., Fabret C., Ferrari E., Foulger D.,
RA Britz C., Fujita M., Fujita Y., Fuma S., Galizzi A., Galleron N.,
RA Ghim S.Y., Glaser P., Goffeau A., Golightly E.J., Grandi G.,
RA Ghim S.Y., Glaser P., Goffeau A., Golightly E.J., Grandi G.,
RA Hilbert H., Holsappel S., Hosono S., Hullo M.F., Itaya M., Jones L.,
RA Guiseppi G., Karamata D., Kasahara Y., Klaerr-Blanchard M., Klein C.,
RA Kubayashi Y., Koetter P., Koningstein G., Krogh S., Kumano M.,
RA Kurita K., Lapidus A., Lardinois S., Lauber J., Lazarevic V.,
RA Medina N., Mellado R.P., Mizuno M., Moesti D., Nakai S., Noback M.,
RA Parro V., Pohl T.M., Porterelle D., Porwollik S., Prescott A.M.,
RA Parro V., Pohl T.M., Porterelle D., Porwollik S., Prescott A.M.,
RA Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadais Y.,
RA Sarotin A., Tacconi E., Takagi T., Takahashi H., Takemaru K.,
RA Takeuchi M., Tamakoshi A., Tanaka T., Terpstra P., Tognoni A.,
RA Tosato V., Uchiyama S., Vandenbol M., Vannier F., Vassarotti A.,
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PIR; S20928; WMWC14.

InterPro; IPRO01896; Plant_vir_prot.

Pfam; PF01307; Plant_vir_prot; 1.

ProDom; PD001561; Plant_vir_prot; 1.

Hypothetical protein.

SEQUENCE 112 AA; 12474 MW; EA9C60E
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P54587;
01-OCT-1996
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Noback M.A., Terpstra P., Holsappel S., Ve
"A 22 kb DNA sequence in the cspB-glpPFKD
Bacillus subtilis chromosome.";
Microbiology 142:3021-3026(1996).
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Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus
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STRAIN-S288c / FY1679;

MEDLINE-96310631, PubMed-8740425;

MEDLINE-96310631, PubMed BY40425;

Sen-Gupta M., Lyck R., Fleig U., Niedenthal R.K., Hegemann J.H.;

Sen-Gupta M., Lyck R., Fleig U., Niedenthal R.K., Hegemann J.H.;

"The sequence of a 24,152 bp segment from the left arm of chromosome

"The sequence of a 24,152 bp segment from the BNI1 and the POL2
                                                                                                       EMBL;
                                                                                                                                                     This SWISS-PROT entry is copyright. It is produced through a clother the Swiss Institute of Bioinformatics and the EMBL the Buropean Bioinformatics Institute. There are no restrict use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and fo entitles requires a license agreement (See http://www.isb-sib.or send an email to license@sisb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YN06_YEAST STANDARD; PRT; 139 AA.
P53842;
01-OCT-1996 (Rel. 34, Created)
01-OCT-1996 (Rel. 34, Last sequence update)
01-OCT-1996 (Rel. 34, Last annotation update)
Hypothetical 15.5 kDa protein in PIKI-POL2 in
YNL266W OR N0800.
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Saccharomyces cerevisiae (Baker's yeast).
Eukaryota; Fungi; Ascomycota; Saccharomyc
Saccharomycetales; Saccharomycetaceae; Sa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; X96983; CAA65686.1; -. EMBL; Z99108; CAB12731.1; -.
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   SEQUENCE
                                              Hypothetical
DOMAIN
                                                                                                                        EMBL; X92494;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nature 390:249-256(1997).
SO005210; YNLZ66W.

In 25 3 POLY-SER.

SMEM 35 55 POTENTIAL

SMEM 57 77 POTENTIAL

ENCE 139 AA; 15510 MW; 308D556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Z99108; CAB127;
G69821; G69821.
                                                                                           ; Z71542; CAA96173.1;
S60916; S60916.
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                                                                                                          CAA63232.1; -.
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                POTENTIAL.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Saccharomycotina; Saccharomycetes;
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   308D55609058DF16 CRC64;
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o. 91;
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Best

Local

Similarity

100.0%;

DB 1; 1e+02;

Length 139;

Query Match

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RESULT 36

RLIS_MYCGA
ID RLIS MYCGA
AC 052350;
DT 15-DEC-1998
DT 28-FEB-2003
RPDO OR RPLO OR RPLO OR RPLO OR RPLO OR RPLO OR RPLO OR RPLOTO VA.V.
RT "DETERMINATION OR NOT SHOOL O
OCC OCC DT DT AC
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Q9ZE01;
30-MAY-2000
28-FEB-2003
28-FEB-2003
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15-DEC-1998
28-FEB-2003
                                                                                                                                                                                                                                                                      RICPR
                      Bacteria; Proteobacteria; Alpi
Rickettsiaceae; Rickettsieae;
                                                                                                                   N utilization substance
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pfam; PF01305; Ribosomal L15; T.
TIGRFAMS; TIGR01071; rp10 bact; 1.
PROSITE; PS00475; RIBOSOMAL L15; FALSE_NEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the European Bioinformatics Institute. There are no rest
by non-profit institutions as long as its content
modified and this statement is not removed. Usage by an
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or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
STRAIN-A5969Var.B;
MEDLINE-20325869; PubMed=10867916;
Skamrov A.V., Gol'dman M.A., Feoktistova E.S., Bibilashvili R.S.;
"Determination and analysis of the nucleotide sequence of a segment
                                                                      Rickettsia prowazekii.
                                                                                               NUSB OR RP162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ribosomal protein; rRNA-binding.
SEQUENCE 147 AA; 16017 MW; 54570D2E3AD2B972
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mycoplasma gallisepticum.
Bacteria; Firmicutes; Mollicutes; Mycoplasmataceae; Mycoplasma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro; IPR005749; L15 bact.
InterPro; IPR001196; Ribosomal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL; AF036708; AAB95405.1; -.
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2 OR RPL15.
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(Rel. 37,
(Rel. 41,
                                                                                                              (Rel. 39, Created)
(Rel. 41, Last sequence update)
(Rel. 41, Last annotation update)
on substance protein B homolog (NusB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (Mosk) 34:390-396(2000)
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                         Alphaproteobacteria; Rickettsiales; 
eae; Rickettsia.
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0; Mismatches
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o. 1.1e+02;
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16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2003 (Rel. 41, Last annotation update)
28-FEB-2003 (Rel. 41, Last annotation update)
Hypothetical protein R01209.
R01209 OR SMC01771.
Rhizobiam mediloti (Sinorhizobium meliloti).
Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Rhizobiaceae; Sinorhizobium/Ensifer group; Sinorhizobium.
                                                                                                                                                                                                                   Capela D., Barloy-Hubler F., Gouzy J., Bothe G., Ampe F., Batut Bolstard P., Becker A., Boutry M., Cadieu E., Dreano S., Gloux Godrie T., Goffeau A., Kahn D., Kiss E., Lelaure V., Masuy D., Pohl T., Portetelle D., Puehler A., Purnelle B., Ramsperger U., Renard C., Thebault P., Vandenbol M., Weidner S., Galibert F.; "Analysis of the chromosome sequence of the legume symbiont Sinorhizobium meliloti strain 1021."; Proc. Natl. Acad. Sci. U.S.A. 98:9977-9882(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RHIME
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HSSP; PG4381; 1EY1.
HAMAP, MF 00073; -; 1.
InterPro; IPR006027; NusB.
Pfam; PF01029; NusB; 1.
Transcription termination; RNA-bindin
SEQUENCE 155 AA; 17652 MW; B69F86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
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                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a c
between the Swiss Institute of Bioinformatics and the 'EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=21396507; PubMed=11481430;
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                            (See http://www.isb-sib.
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                                                                                 There are no restrictions ng as its content is in
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-YB66 AGRT5
Q8UG74;
Q8-FEB-2003
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28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Hypothetical protein Atul166/AGR_C_2157.
ATUL166 OR AGR_C_2157.
Agrobacterium Tumefaciens (strain C58 / ATCC 33970).
Bacteria, Proteobacteria, Alphaproteobacteria, Rhizobiales,
Rhizobiaceae, Rhizobium/Agrobacterium group; Agrobacterium.
NCBI_TaxID=176299;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE-21608550; PubMed-11743193;
MOOD D.W., Secubal J.C., Kaul R., Monks D.E., Kitajima J.P.,
Okura V.K., Zhou Y., Chen L., Wood G.E., Almeida N.F. Jr., Woo L.,
Okura V.K., Zhou Y., Chen L., Wood G.E., Almeida N.F. Jr., Woo L.,
Chapman P., Clendenning J.A., Karp P.D., Bovee D. Sr.,
Chapman P., Clendenning J., Deatherage G., Gillet W., Grant C.,
Kutyavin T., Levy R., Li M.-J., McClelland E., Palmieri A.,
Kutyavin T., Levy R., Li M.-J., McClelland E., Palmieri A.,
Kutyavin T., Levy R., Li M.-J., McClelland E., Palmieri A.,
Raymond C., Rouse G., Saenphimmachak C., Wu Z., Romero P., Gordon D.,
Raymond C., Rouse G., Saenphimmachak C., Wu Z., Romero P., Gordon D.,
Chapma S., Yoo H., Tao Y., Biddle P., Jung M., Kreepan W., Perry M.,
Gordon-Kamm B., Liao L., Kim S., Hendrick C., Zhao Z.-Y., Dolan M.,
Chumley F., Tingey S.V., Tomb J.-F., Gordon M.P., Olson M.V.,
Nester E.W.;
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HAMAP; MF 00440; -; 1.
InterPro; IPR005144; ATP.
InterPro; IPR003796; DUF193.
Pfam; PF03477; ATP-cone; 1.
TIGR07477; ATP-cone; 1.
TIGRFAMB; TIGR00244; 1.
Hypothetical protein; Complete proteome.
Hypothetical protein; Complete PTAE2C177C680FFA CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Goodner B., Hinkle G., Gattung S., Miller N., Blanchard M., Qurollo B., Goldman B.S., Cao Y., Abkonazi M., Halling C., Mullin L., Houmiel K., Gordon J., Vaudin M., Iartchouk O., Epp A., Liu F., Wollam C., Allinger M., Doughty D., Scott C., Lappas C., Markelz B., Flanagan C., Crowell C., Gurson J., Lomo C., Sear C., Strub G.,
                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                      Cielo C., Slater S., "Genome sequence of the plant pathogen and bio Agrobacterium tumefaciens C58."; Science 294:2323-2328(2001).
-!- SIMILARITY: BELONGS TO THE UPF0168 FAMILY.
                               EMBL; AE009080; AAL42179.1; -. EMBL; AE008045; AAK86970.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=21608551; PubMed=11743194;
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Q983B3;
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16-OCT-2001
28-FEB-2003
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TIGRFAMs; TIGR00244; TIGR00244; 1.
Hypothetical protein; Complete proteome.
SEQUENCE 159 AA; 18181 MW; 8AC7CD96BD2705D0
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InterPro; IPR005144; ATP.
InterPro; IPR003796; DUF193.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kaneko T., Nakamura Y., Sato S., Asamizu E., Kato T., Sasam watanabe A., Idesawa K., Ishikawa A., Kawashima K., Kimura Kishida Y., Kiyokawa C., Kohara M., Matsumoto M., Matsumo A Mochizuki Y., Nakayama S., Nakazaki N., Shimpo S., Sugimoto Takeuchi C., Yamada M., Tabata S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rhizobium loti (Mesorhizobium loti).
Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Phyllobacteriaceae; Mesorhizobium.
                                                                                                                                                                                                              Pfam; PF03477; ATP-cone; 1.
TIGRPAMB; TIGR00244; 1
TIGRO0244; TIGR00244; 1
Hypothetical protein; Complete pr
SEQUENCE 159 AA; 18050 MW; 40
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InterPro; IPR003796; DUF193.
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HAMAP; MF_00440; -; 1.
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95 LESSGE 100
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                                                LESSGE 153
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(Rel. 41, Last annotation
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RESULT 41 COAD_PROMI

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RESULT 42
RL10_BUCAL
ID RL10
AC P5714
AC P5717
DT 16-OC
DT 28-FE
DE 50S x
GN RPL1
OS Buchr
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Best Local (
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                                                                                                                                                                                    PS7148;
p57148;
16-OCT-2001
16-OCT-2001
28-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AY075039; AAL78072.1; -.

HAMAP; MF 00151; -; 1.

InterPro; IPR004820; Cytidylyltransf.

InterPro; IPR004821; Cyt tran_rel.

InterPro; IPR004821; Cyt tran_rel.

InterPro; IPR001980; LPS_biosynth.

Pfam; PF01467; CTP_transf_2; 1.

TIGRPAMs; TIGR01510; coaD_prex, kdtB; 1.

TIGRPAMs; TIGR01510; coaD_prex, kdtB; 1.

TIGRPAMs; TIGR0125; Cyt tran_rel; 1.

Transferase; Nucleotidyltransferase; Coenzyme A biosynthesis.

SEQUENCE 161 AA; 17915 MW; 326F066C94FASBC7 CRC64;
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QBRSX4;
15-SEP-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                    symbiotic bacterium).
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and genetic distribution among some enteric bacteria. \ddot{n}_i submitted (JAN-2002) to the EMBL/GenBank/DDBJ databases
                                                                                                            Buchnera aphidicola (subsp.
                                                                                                                                     RPLJ OR BU036
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"The inner-core lipopolysaccharide biosynthetic waaE gene: function
                              Enterobacteriaceae; Buchnera
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  :-
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15-SEP-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PATHWAY: Coenzyme A (CoA) biosynthesis; fourth step
SUBUNIT: Homohexamer (By similarity).
SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
SIMILARITY: Belongs to the bacterial coad family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              phosphopantetheine, yielding dephospho-COA (dPCOA) and pyrophosphate (By similarity).

CATALYTIC ACTIVITY: ATP + pantetheine 4'-phosphate - Airho---
3'-denhospha----
                                                                                                                                                           ribosomal protein
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(Rel. 40,
(Rel. 41,
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(Rel. 42, Last annotation
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s; Pred. No. 1.1
0; Mismatches
                                                                                                            Acyrthosiphon pisum) (Acyrthosiphon pisum
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b. 1.1e+02;
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C STRAIN-C57BL/GJ; TISSUE-Kidney;

XX MEDLINE-21085660; PubMed=11217851;

XX MEDLINE-21085600; PubMed=11217851;

XX Arakawa T., Hara A., Shibata K., Yoshino M., Adachi J., Fukuda S.,

XX Alzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,

XX Alzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,

XX Alzawa K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,

XX Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,

XX Kuehl R., Matsuda H.A., Ashburner M., Kissi C., King B., Kochiwa H.,

XX Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,

XX Fleischmann W., Gaasterland T., Nikaido I., Pesole G., Ouackenbush J.,

XX Alzawa K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,

XX Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,

XX Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,

XX Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,

XX Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,

XX Sakai K., Okido T., Furuno M., Aono H., Gariboldi M.,

XX Balake J., Sakai K., Okido T., Furuno M., Carninci P., de Bonaldo M.F.,

XX Balake J., Sakai K., Gariboldi M.,

XX Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q9ZC23; Q9DCK1;
Q9ZC23; Q9DCK1;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Refigeration (Rel. 41, Last annotation update)
Molybdenum cofactor synthesis protein 2 large subunit
Molybdenum cofactor synthesis protein 2 large subunit) (MPT synthase large subunit)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HAMAP; MF_00362; ; i.
InterPro; IPR001790; Ribosomal L10.
InterPro; IPR001363; Ribosomal L10eub.
Pfam; PF00466; Ribosomal L10; I.
PROSITE; PS01109; RIBOSOMAL L10; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=99162191; PubMed=10053003; Stallmeyer B., Drugeon G., Reiss J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MS2L
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the European Bioinformatics Institute. The
use by non-profit institutions as long
modified and this statement is not removed.
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                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
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SEQUENCE FROM N
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    Hattori M., Sakaki Y., Ishiki
endocellular bacterial symbiont

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Sciurognathi; Muridae; Murinae; Mus
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P39262;
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Frazier M.W., Mosig G.; "The bacteriophage T4 gene mrh whose product inhibits late T4 expression in an Escherichia coli rpoH (sigma 32) mutant."; Gene 88:7-14(1990).
                                                                                                                                                                                                                                                                                                                                                                      Bacteriophage T4.
Viruses; dsDNA viruses,
T4-like viruses.
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EMBL; AK002719; BAB22306.1; -.
HSSP; P30749; 1FM0.
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                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A. MEDLINE=90255970; PubMed=1692800;
                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pfam;
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Pfam; PF02391; MoaE; 1.
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PATHWAY: Molybdenum cofactor biosynthesis.

SUBUNIT: Heterodimer of a large and a small subunit
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T., Thomas E
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Bult C.J., White O., Olsen G.J., Zhou L., Fleischmann R.D.,
Sutton G.G., Blake J.A., FitzGerald L.M., Clayton R.A., Gocayne J.D.,
Kerlavage A.R., Dougherty B.A., Tomb J.-F., Adams M.D., Reich C.I.,
Overbeek R., Kirkness E.F., Weinstock K.G., Merrick J.M., Glodek A.,
Scott J.L., Geoghagen N.S.M., Weidman J.F., Fuhrmann J.L., Nguyen D.
Utterback T.R., Kelley J.M., Peterson J.D., Sadow P.W., Hanna M.C.,
Cotton M.D., Roberts K.M., Hurst M.A., Kaine B.P., Borodovsky M.,
Klenk H.-P., Fraser C.M., Smith H.O., Woese C.R., Venter J.C.;
"Commolete genome sequence of the methanogenic archaeon, Methanococcu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Y773 METJA
Q58183;
01-NOV-1997
01-NOV-1997
16-OCT-2001
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                                                                                              CHAIN
SEQUENCE
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PIR; E64396; E64396.
TIGR; MJ0773; -.
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the European Bioinformatics Institute. The
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between the Swiss Institute of Bioinformatics and the EMBL
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Methanocaldococcaceae; N
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1 protein MJ0773 precursor.
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99; PubMed=8688087;
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3 POTENTIAL.
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SFFDSN SFFDSN

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RESULT 46

ARCLY
ID AROL S.
AC QREEP
DT 15-SEP
DR AROL O
RADGION
RA MACCIel
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Q8XEP9;
15-SEP-2003
                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a cobetween the Swiss Institute of Bioinformatics and the EMBL of the European Bioinformatics Institute. There are no restrictions by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and forentities requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             J. Bacteriol. 185:2330-2337(2003).
-!- CATALYTIC ACTIVITY: ATP + shikimate = ADP + shikimate
-!- PATHWAY: Aromatic amino acids biosynthesis; shikimate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Complete genome sequence of a multiple drug resistant Salmonella enterica serovar Typhi CT18.";
Nature 413:848-852(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Parkhill J., Dougan G., James K.D., Thomson N.R., Pickard D., Wain J. Churcher C., Mungall K.L., Bentley S.D., Holden M.T.G., Sebaihia M., Baker S., Basham D., Brooks K., Chillingworth T., Connerton P., Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J., Cronin A., Davis P., Davies R.M., Dowd L., White N., Farrar J., Feltwell T., Hamlin N., Hague A., Hien T.T., Holroyd S., Jagels K., Krogh A., Larsen T.S., Leather S., Moule S., O'Gaora P., Parry C., Quail M., Rutherford K., Simmonds M., Skelton J., Stevens K., Whitehead S., Barrell B.G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   McClelland M., Sanderson K.E., Spieth J., Clifton S.W., Latreill Courtney L., Porwollik S., Ali J., Dante M., Du F., Hou S., Laym Leonard S., Nguyen C., Scott K., Holmes A., Grewal N., Mulvaney Ryan E., Sun H., Florea L., Miller W., Stoneking T., Nhan M., Waterston R., Wilson R.K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15-SEP-2003 (Rel. 42, Last sequence updat. 15-SEP-2003 (Rel. 42, Last annotation upd Shikimate kinase II (EC 2.7.1.71) (SKII). AROL OR STM0388 OR STY0421 OR T2476.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Deng W., Liou S.-R., Plunkett G. III, Mayhew G.F., Rose D.J.,
Burland V., Kodoyianni V., Schwartz D.C., Blattner F.R.;
"Comparative genomics of Salmonella enterica serovar Typhi strains Ty2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SPECIES=S.typhi; STRAIN=Ty2 / ATCC 700931; MEDLINE=22531367; PubMed=12644504;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SPECIES=S.typhi; STRAIN=CT18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Comparative genomics and CT18.";
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                                                                                                                                                                                                                                                                                                                                                                                                                 SUBCELLULÂR LOCATION: Cytoplasmic (Probable). SIMILARITY: Belongs to the shikimate kinase family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     fifth step.
SUBCELLULAR LOCATION:
                                AE008713;
AL627266;
AE016842;
                                    ; AAL19342.1; -.
; CAD08843.1; -.
; AAO70064.1; -.
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S., Layman D.,
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pathway;
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RESULT 48
KITH_CBEPV
ID KITH_CBE
AC Q05879;

CBEPV

STANDARD;

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RESULT 47

KITHY
KITHY
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AC Q05880

DT 01-FEB
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DT 15-FEB
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01-FEB-1994
01-FEB-1994
30-MAY-2000
                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for comentities requires a license agreement (See http://www.isb-sib.ch/anor send an email to license@isb-sib.ch).
                                                                                                                                                                                           PROSITE; DS00603; TK_CELLULAR TYPE; 1.

Transferase; Kinase; DNA synthesis; ATP-binding.

NP_BIND 8 15 ATP (BY SIMILARITY).

SEQUENCE 185 AA; 21298 MW; 33AD4B3A93F5F5AB CRC64;
                                                                                                                                                                                                                                                                                              InterPro; IPR001267; TK_cell.
Pfam; PF00265; TK; 1.
                                                                                                                                                                                                                                                                                                                                                  EMBL; D10681; BAA01527.1; -. PIR; JQ1923; JQ1923.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entomopoxviruses.";
J. Gen. Virol. 73:3235-3240(1992).
-i- CATALYTIC ACTIVITY: ATP + thym
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=93107860; PubMed=1469363;
Lytvyn V., Fortin Y., Banville M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Viruses, dsDNA viruses,
Entomopoxvirus B.
NCBI_TaxID=28322;
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PRINTS; PR01100; SHIKIMTKNASE.
PROSITE; PS01128; SHIKIMATE KINASE; 1.
Aromatic amino acid biosynthesis; Transferase; Kinase; ATP-binding;
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InterPro; IPR000623; Shik_kinase.
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"Comparison of the thymidine kinase genes from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          phosphate.
SIMILARITY: BELONGS TO THE THYMIDINE KINASE FAMILY.
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(Rel. 28, Last sequence up)
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lnase (EC 2.7.1.21).
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Pred. No
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o. 1.3e+02;
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ID MS2L HUMAN
ID MS2L HUMAN
ID COP600
DT 28-FE
DT 15-SE
RC TISSE
RX MEDLI
RA SEALL
RX MEDLI
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01-FEB-1994
30-MAY-2000
                                                                                                                                                                                                                                                                        MS2L_HUMAN STANDARD; PRT; 188 AA.
096007;
096007;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
15-SEP-2003 (Rel. 42, Last annotation update)
15-SEP-2003 (Rel. 42, Last annotation update)
Molybdenum cofactor synthesis protein 2 large subunit (Molybdopterin Molybdenum cofactor synthesis protein 2 large subunit) (MOCS2B) (MOCO1-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE-93107860; PubMed=1469363;
Lytvyn V., Fortin Y., Banville M., Arif B., Ric
"Comparison of the thymidine kinase genes from
entomopoxviruses.";
J. Gen. Virol. 73:3235-3240(1992).
-!- CATALYTIC ACTIVITY: ATP + thymidine = ADP +
                                                                                                                                                                                                                                                                                                                                                                                       HUMAN
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 SEQUENCE FROM N.A.
MEDLINE=99108152; PubMed=9889283;
Sloan J., Kinghorn J.R., Unkles f
                                                            Stallmeyer B., Drugeon G., Reiss J., "Human molybdopterin synthase gene: transcript with overlapping reading Am. J. Hum. Genet. 64:698-705(1999).
                                                                                                                                                                                               Homo sapiens (Human
Eukaryota, Metazoa;
Mammalia, Eutheria,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pfam; PF00265; TK; 1.
PROSTTE; PS00603; TK_CELLULAR TYPE;
Transferase; Kinase; DNA synthesis;
NP_BIND 8 15 ATP (BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; D10680; BAA01526.1; -. PIR; JQ1922; JQ1922. InterPro; IPR001267; TK_cell
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NCBI_TaxID=10288;
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                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                 NCBI_TaxID=9606;
                                                                                                                                                                                                                                               MOCS2 OR MOCO1
                                                                                                                        MEDLINE=99162191; PubMed=10053003;
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SIMILARITY: BELONGS TO THE THYMIDINE KINASE FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 69
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Kinghorn
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llarity 100.0%;
Conservative
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(Rel.
(Rel.
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A viruses, no RNA stage;
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                                                                                                                                                                                                                                               OR MCBPE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              267; TK_cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28, Created)
28, Last sequence update)
39, Last annotation updat
(EC 2.7.1.21).
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Primates;
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21426 MW;
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    Unkles S.E.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 6; DB 1; Pred. No. 1.3
                                                                                                                                                                                                  Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE; 1.
nesis; ATP-binding.
http (BY SIMILARITY)
C6F63B2F4DAAB9C7 (
                                                                                          J., Haenni A.L., Mendel R.R.;
ne: identification of a bicist
                                                                             frames
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 1; NO. 1.3e+02;
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Poxviridae;
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                                                                                           of a bicistronic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              molybdenum cofactor deficiency type B.";
Am. J. Hum. Genet. 64:706-711(1999).
-!- FUNCTION: Converts molybdopterin precursor Z
This requires the incorporation of two sulfur Z to generate a dithiolene group.
-!- SUBUNIT: Heterodimer of a large and a small s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Huang C
Han Z.,
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                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                         Molybdenum cofactor biosynthesis; Disease mutation.
VARIANT 168 168 E -> K (in MOCOD type
/FTId=VAR 012765.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; AF091871; AAD14599.1; -.
EMBL; AF117815; AAD13297.1; -.
EMBL; AF155659; AAF67478.1; -.
EMBL; B59370; B59370.
                                                                                                                                                                                                                                                                                                                                                                                                                                  HSSP; P30749; 1FM0.
Genew; HGNC:7193; MOCS2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Reiss J., Dorche C., Stallmeyer B.,
"Human molybdopterin synthase gene:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VARIANT MOCOD TYPE B LYS-168.
MEDLINE=99162192; PubMed=10053004;
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                                                                                                                                                                                                                                                                                                      GO:0006777; P:Mo-molybdopterin cofactor biosynthesis; erPro; IPR003448; Mb_biosynth_MoaE.
m; PF02391; MoaE; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DISEASE: Defects in MOCS2 are the cause of molybdenum cofactor deficiency type B (MOCOD type B) [MIM:252150]; an autosomal recessive disease which leads to the pleiotropic loss of all molybdoenzyme activities and is characterized by severe neurological damage, neonatal seizures and early childhood death. MISCELLANEOUS: This protein is produced by a bicistronic gene which also produces the small subunit from an overlapping reading
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE SPECIFICITY: Highest levels are found in heart muscle. Lower levels are present in brain, kidney and Very low levels are found in lung and peripheral blood
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ed (JUN-1999) to the EMBL/GenBank/DDBJ databases
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Fu G.;
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Pred. No. 1.3e+02
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ms into precursor
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RESULT 50 Y78B_METJA ID _Y78B_METJA AC P81231;

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Matches 6; Conserv
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15-JUL-1998 (Rel. 36, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Hypothetical protein MJ0785.1.
MJ0785.1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=96337999; PubMed=8688087;
STRAIN=JAL-1 / DSM 2661 / ATCC 43067;
STRAIN=JAL-1 / DSM 2661 / ATCC 43067;
Bult C.J., White O., Olsen G.J., Zhou L., Fleischmann R.D.,
Sutton G.G., Blake J.A., FitzGerald L.M., Clayton R.A., Gocayne J.D.,
Kerlavage A.R., Dougherty B.A., Tomb J.-F., Adams M.D., Reich C.I.,
Overbeek R., Kirkness E.F., Weinstock K.G., Merrick J.M., Glodek A.,
Scott J.L., Geoghagen N.S.M., Weidman J.F., Fuhrmann J.L., Nguyen D.,
Utterback T.R., Kelley J.M., Peterson J.D., Sadow P.W., Hanna M.C.,
Cotton M.D., Roberts K.M., Hurst M.A., Kaine B.P., Borodovsky M.,
Klenk H.-P., Fraser C.M., Smith H.O., Woese C.R., Venter J.C.,
"Complete genome sequence of the methanogenic archaeon, Methanococcus
                                                                                                                                                                                                                                                                                                                                                                                                                             "Complete genome sequence of the methanogenic archaeon, Methanococcus jannaschii.",
Science 273:1058-1073(1996).
-!- SUBCELULAR LOCATION: Integral membrane protein (Potential).
-!- SIMILARITY: TO M.JANNASCHII MJ0795.1 AND MJ1249.1.

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                                                                                                                                                                                                                                           Hypothetical protein; Transmembrane; Complete proteome.
TRANSMEM 20 40 POTENTIAL.
TRANSMEM 46 66 POTENTIAL.
TRANSMEM 100 120 POTENTIAL.
TRANSMEM 106 146 POTENTIAL.
SEQUENCE 189 AA; 21527 MW; 7DB9DB3E8E954EDD CRC64;
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Archaea; Euryarchaeota; Methanococci; Methanococcales; Methanocaldococcaceae; Methanocaldococcus.
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Q8e9w3 shewanella
Q8e9w3 shewanella
Q8e9w3 shewanella
Q8ev10 staphylococ
Q9p082 homo sapien
Q8s8d6 arabidopsis
p74399 synechocyst
p71817 mycobacteri
Q926t1 listeria mo
Q8y3k8 listeria mo
Q8y3k8 listeria mo
Q9bgp3 macaca fasc
Q18355 drosophila
Q9wsz2 human herpe
Q8vv80 colwellia m
Q18354 drosophila
Q8x563 escherichia
Q9x5c7 clostridium
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Q9jyw4 neisseria m
Q9jtv0 neisseria m
Q9jtv0 neisseria m
Q9gtv0 neisseria m
Q8e0n9 streptococc
Q9ckk9 pasteurella
P88930 kaposi's sa
Q06058 saccharomyc
Q8mmk8 corynebacte
Q9v263 pyrococcus
Q9v263 pyrococcus
Q9v263 pyrococcus
Q9v164 drosophila
Q9nup8 homo sapien
Q8i099 drosophila
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RANGE 
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Q8FCP3
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01-MAR-2003
01-MAR-2003
01-MAR-2003
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"Extensive mosaic structure revealed by the complete genome of uropathogenic Escherichia coli.";
Proc. Natl. Acad. Sci. U.S.A. 99:17020-17024(2002).
EMBL; ABD16768; AAN82686.1; --
Hypothetical protein; Complete proteome.
Hypothetical protein; Schwig 989F642744F14BA2 CRC64;
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Q8FCP3;
01-MAR-2003
01-MAR-2003
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MEDLINE-22297686; PubMed=12368813;
Heidelberg J.F., Paulsen I.T., Nelson K.E., Gaidos E.J., Nelson W.C.
Read T.D., Eisen J.A., Seshadri R., Ward N., Methe B., Clayton R.A.,
Meyer T., Tsapin A., Scott J., Beanan M., Brinkac L., Daugherty S.,
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STRAIN=06:H1 / CFT073 / ATCC 700928;
MEDLINE=22388234; PubMed=12471157;
                                                                                       STRAIN-MR-1
                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                         Bacteria; Proteobacteria;
                                                                                                                                                                                                              Shewanella oneidensis.
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                                                                                                                                                                                                                                                    RTX toxin,
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NCBI_TaxID=217992;
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Q9F812
Q8GXR2
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Q9s8p8 solanum tub
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                                                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                              01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation updat
HSPC203 (PTD019) (Hypothetical protein).
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InterPro; IPR002104; Phage_integrase
Pfam; Pr00589; Phage_integrase; 1.
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Baba T., Takeuchi F., Kuroda M., Yuzawa
Nagai Y., Iwama N., Asano K., Naimi T.,
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Bacteria; Firmicutes; Bacillales;
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                                                                                                                             Homo sapiens
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          TISSUE=Umbilical
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"Genome and virulence determinants of high virulence community-
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oda H., Cui J
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Best Local S
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Best Local S
Matches 7
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Q8SBD6;
QBSBD6;
01-JUN-2002 (TrEMBLrel. 2
01-JUN-2002 (TrEMBLrel. 2
01-MAR-2003 (TrEMBLrel. 2
P74399
P74399;
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01-FEB-1997 (
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Hypothetical
SLL0268.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidieurosids II; Brassicales; Brassicaceae; Arabidopsis.
NCBI TaxID=3702;
                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN=cv. Columbia;
Lin X., Kaul S., Shea T.P., Fujii C.Y., Shen M., Vanaken S.E.,
Barnstead M.E., Mason T.M., Bowman C.L., Ronning C.M., Benito M
Carrera A.J., Creasy T.H., Buell C.R., Town C.D., Nierman W.C.,
Fraser C.M., Venter J.C.;
Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AC007048; AAM15367.1; -.
Pfam; PF04504; DUF573; 1.
SEQUENCE 135 AA; 14945 MW; 9AEC4B7DC288EB00 CRC64;
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TISSUE-Pituitary tumor;
Xiao H., Song H., Gao G.,
Submitted (JAN-2000) to t
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                     (TrEMBLrel. 02, Created)
(TEMBLrel. 02, Last sequence update)
(TEMBLrel. 20, Last annotation update)
protein sl10268.
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                                                                                                                                                                                                                             SEQUENCE FROM N.A.
STRAIN-CDC 1551 / Oshkosh;
Fleischmann R.D., Alland D., Eisen J.
Fleischmann R.D., Alland D., Gwi
Peterson J., DeBoy R., Dodson R., Gwi
Kolonay J.F., Nelson W.C., Umayam L.,
Delcher A., Utterback T., Weidman J.,
Bishai W.;
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P71817;
01-JAN-1998 (TrEMBLrel. C
01-JAN-1998 (TrEMBLrel. C
01-MAR-2002 (TrEMBLrel. 2
                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=98295987; PubMed=9634230;
Cole S.T., Brosch R., Parkhill J., Garnier T., Churcher C., Harris Gordon S.V., Eiglmeier K., Gas S., Barry C.E. III, Tekaia F., Gordon S.V., Eiglmeier K., Gas S., Barry C.E. III, Tekaia F., Badcock K., Basham D., Brown D., Chillingworth T., Connor R., Badcock K., Basham D., Brown D., Chillingworth T., Connor R., Bavies R., Devlin K., Feltwell T., Gentles S., Hamlin N., Holroyd Hornsby T., Jagels K., Krogh A., McLean J., Moule S., Murphy L., Oliver S., Osborne J., Quail M.A., Rajandream M.A., Rogers J., Rutter S., Seeger K., Skelton S., Squares S., Squares R., Sulston J.E., Taylor K., Whithehead S., Barrell B.G.; "Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence.";
Nature 393:537-544(1998).
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Hosouchi T., Matsuno A., Muraki A., Nakazaki N.,
Shimpo S., Takeuchi C., Wada T., Watanabe A., Yan
Tabata S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mycobacterium tuberculosis.
Bacteria; Actinobacteria; Actinobacteridae; Actinon
Corynebacterineae; Mycobacteriaceae; Mycobacterium.
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EMBL; D90914; BAA18496.1; -.
Hypochetical protein; Complete
SEQUENCE 135 AA; 14362 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. II. Sequence determination of the centire genome and assignment of potential protein-coding regions."
  TubercuList; Rv0760c;
InterPro; IPR002075; I
Pfam; PF02136; NTF2;
                                                                                                                           "Whole genome comparison of Mycobacterium tuberculosis clinical and laboratory Strains.";
Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; Z80226; CAB02403.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Steroid isomerase, putative. RV0760C OR MTCY369.05 OR MTO785.
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Bacteria; Cyanobacteria; Chroococcales; Synechocystis.
NCBI_TaxID=1148;
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                                                                         MT0785;
                                                                                                 AE006969; AAK45026.1;
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Gwinn M.L., Haft D., Hickey E.,
L.A., Ermolaeva M.D., Salzberg
J., Khouri H., Gill J., Mikula
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                                                                                                                                                                            Q8Y3K8
Q8Y3K8;
01-MAR-2002
01-MAR-2002
01-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Glaser P., Frangeul L., Buchrieser C., Rusniok C., Amend A.,
Baquero F., Berche P., Bloecker H., Brandt P., Chakraborty T.,
Charbit A., Chetouani F., Couve E., de Daruvar A., Dehoux P.,
Domann E., Dominguez-Bernal G., Duchaud E., Durant L., Dussurget O.,
Entian K.-D., Fishi H., Garcia-del Portillo F., Garrido P.,
Gautier L., Goebel W., Gomez-Lopez N., Hain T., Hauf J., Jackson D.,
Jones L.-M., Kaerst U., Kreft J., Kuhn M., Kunst F., Kurapkat G.,
Madueno E., Maitournam A., Mata Vicente J., Ng E., Nedjari H.,
Nordsiek G., Novella S., de Pablos B., Perez-Diaz J.-C., Purcell R.,
Remmel B., Rose M., Schlueter T., Simoss N., Tierrez A.,
Vazquez-Boland J.-A., Voss H., Wehland J., Cossart P.;
"Comparative genomics of Listeria species.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q926T1;
                                                                                                                            Hypothetical LMO2827.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRINTS; PR00598; HTHMARR.
SMART; SM00347; HTH MARR; 1.
Hypothetical protein; Complete proteome.
SEQUENCE 140 AA; 16142 MW; C913BA5CBDE5D9BB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ListiList; LIN02960; -.
InterPro; IPR000835; HTH MarR.
Pfam; PF01047; MarR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
STRAIN=CLIP 11262 / Serovar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hypothetical protein; Complete proteome. SEQUENCE 139 AA; 15242 MW; 8291E503C8F07FD0 CRC64;
SEQUENCE FROM N.A.
                                           NCBI_TaxID=1639;
                                                                           Bacteria; Firmicutes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Science 294:849-852(2001).
EMBL; AL596174; CAC98185.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PubMed=11679669;
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                                                                                                 listeria monocytogenes
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                                                                                                                                                                                                                                                                                                                                                                                                                       131 ILKNIST 137
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                                                                                                                                                 (TIENBLIE1. 20, Created)
(TIENBLIE1. 20, Last sequence update)
(TIENBLIE1. 23, Last annotation updat
protein lmo2827.
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(TrEMBLrel. 19, Last sequence update)
(TrEMBLrel. 23, Last annotation update)
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                                                                           Bacillales; Listeriaceae; Listeria.
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Pred. No.
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o. 51;
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b. 50;
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Baquero F., Berche P., Bloecker H., Brandt P., Chakraborty T.,
Charbit A., Chetouani F., Couve E., de Daruvar A., Dehoux P.,
Domann E., Dominguez-Bernal G., Duchaud E., Durant L., Dussurget O.,
Entian K.-D., Fsihi H., Garcia-del Portillo F., Garrido P.,
Gautier L., Goebel W., Gomez-Lopez N., Hain T., Hauf J., Jackson D.,
Jones L.-M., Kaerst U., Kreft J., Kuhn M., Kunst F., Kurapkat G.,
Madueno E., Maitournam A., Mata Vicente J., Ng E., Nedjari H.,
Mordsiek G., Novella S., de Pablos B., Perez-Diaz J.-C., Purcell R.,
Remmel B., Rose M., Schlueter T., Simoes N., Tierrez A.,
Vazquez-Boland J.-A., Voss H., Wehland J., Cossart P.;
"Comparative genomics of Listeria species.";
Science 294849-852(2001).
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01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Hypothetical 15.6 kDa protein.
Hypothetical 15.6 kDa protein.
Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalla; Eutherla; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Macaca.
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Q9BGP3;
                                                                                                                                                                                                                                                                  MEROPS; C12.001;-1
InterPro; IPRO11578; UCH_1.
Pfam; PF01088; Peptidase_C12;
PRINTS; PR00707; UBCTHYDRLASE.
PROSITE; PS00140; UCH_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                           libraries.";
Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases
EMBL; AB056429; BAB33087.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Frontal cortex;
Osada N., Hida M., Kusuda J., Tanuma R., Iseki K., Hirai M., Terao
Suzuki Y., Sugano S., Hashimoto K.;
"Isolation of full-length cDNA clones from macaque brain cDNA
                                                                                                                                                                                                                            Hypothetical protein. SEQUENCE 142 AA; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS; PRO0598; HTHMARR.
SMART; SM00347; HTH MARR; 1.
SMODITURE TO THE MARR; 1.
SMODITURE TO THE MARR; 1.
SMODITURE TO THE MARR.
SMODITURE TO THE MARR.
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Pfam; PF01047; Mark;
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                                                                                                                                                                                                                                                                                                                                                                                                                         HSSP; P15374; 1UCH.
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                                                       84
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CFEKNEA
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                                                                                                                                                                                                                            15632 MW;
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Jo. 51;
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RESULT 12
Q9WSZ2
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O18355;
O1-JAN-1998 (TrEMBLrel. CO1-JAN-1998 (TrEMBLrel. CO1-DEC-2001 (TrEMBLrel.)
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Q9WSZ2;
01-NOV-1999
01-NOV-1999
01-DEC-2001
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Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta;
Neoptera; Endopterygota; Diptera; Brachycera; Musco
Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID=7227;
                                                                                                                                                                                                                                                                                                                                                                                                               EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Isegawa Y.;
Submitted (DEC-1998)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN-HST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Betaherpesvirinae; Roseolovirus.
NCBI_TaxID=10368;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Viruses; deDNA viruses,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Glycoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Drosophila.";
Genes Dev. 11:2729-2740(1997).
EMBL; AF010327; AAB62576.1; -.
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MEDLINE=97477378; PubMed=9334334;

MOTILINE=97477378; PubMed=93344334;

MOTILINE=97477378; PubMed=9334434;

MOTILINE=97477878; PubMed=9334434;

MOTILINE=97477878; PubMed=9334434;

MOTILINE=97477878; PubMed=9334434;

MOTILINE=97477878; PubMed=9334434;

MOTILINE=9747878; PubMed=974788; PubMed=974788; PubMed=974788; PubMed=974788; PubMed=974788; PubMed=974788; PubMed=974788; PubMed=974788; PubMed=9747888; PubMed=974788; PubMed=974788; PubMed=974788; PubMed=974788; PubMed=974788; PubMed=974788; PubMed=9747888; PubMed=9747888; PubMed=974788; PubMed=9747888; PubMed=974788; PubMed=974788; PubMe
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                                                                                                                                                                                                                                                                                                                                         SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Comparison of the complete DNA sequences of variante A and B.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE-99412319; PubMed-10482554;
Isegawa Y., Mukai T., Nakano K., Kagawa M., Chen J., Mori
Sunagawa T., Kawanishi K., Sashihara J., Hata A., Zou P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amanishi K.;
                                                                 114 TLQSSNS 120
                                                                                                                                                                                                                                                                                                                                                                                                                   rol. 73:8053-8063(1999).
AB021506; BAA78315.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 7; Conserv
TLOSSNS 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VLNPDGS 46
                                                                                                                                                                                                                                                                                                                                     164 AA; 18833 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       153 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (TrEMBLrel. 12, Created)
(TrEMBLrel. 12, Last sequence update)
(TrEMBLrel. 19, Last annotation update)
n gp82/105 (Fragment).
                                                                                                                                                                    Conservative
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/ 100.0%; Pr
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100.0%; Pr
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Last sequence update)
Last annotation update)
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                                                                                                                                                                                                           Score 7;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
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                                                                                                                                                                                                           DB 12;
5. 58;
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                                                                                                                                                                                                                                              Length 164;
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Best Local S
Matches 7
Query Match
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Pfam; PF00213; OSCP; 1.
PRINTS; PR00125; ATPASEDELTA.
TIGRFAMs; TIGRO1145; ATP Synt_delta;
PROSTE; PS00339; ATPASE DELTA;
ATP Synthesis; CF(1); Hydrolase.
SEQUENCE 177 AA; 19131 MW; 1CF62
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01-MAR-2002
01-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             O18354;
01-JAN-1998 (TrEMBLrel.
01-JAN-1998 (TrEMBLrel.
01-OCT-2002 (TrEMBLrel.
                                                                    Genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORE - AND CF(0) - THE MEMBRANE PROTON CHANNEL. CF(1) SUBUNITS: ALPHA(3), BETA(3), GAMMA(1), DELTA(1), EPSI) HAS THREE MAIN SUBUNITS: A, B AND C (BY SIMILARITY).

-!- SIMILARITY: BELONGS TO THE ATPASE DELTA CHAIN FAMILY.
EMBL, AB035129; BAB82481.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Colwellia maris atp operon, complete sequence.";
Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.
-:- FUNCTION: THIS PROTEIN SEEMS TO BE PART OF THE STALK THAT LINKS
-:- CF(0) TO CF(1). IT EITHER TRANSMITS CONFORMATIONAL CHANGES FROM
CF(0) INTO CF(1) OR IS IMPLICATED IN PROTON CONDUCTION (BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATPH.
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01.MAR-2002 (TrEMBLrel. 20, Last sequence update)
01.MAR-2003 (TrEMBLrel. 23, Last annotation update)
F0F1-ATPase subunit delta (ATP synthase delta chain
                                                                                                                                           Morcillo P., Rosen C., Baylies M.K., Dorsett D.; "Chip, a widely expressed chromosomal protein required for segmentation and activity of a remote wing margin enhancer
                                                                                                                                                                                                                                                                                                         Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;.
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
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Colwellia maris (Vibrio sp. (straın Abs-1//.
Profesobacteria; Gammaproteobacteria; Alteromonadales;
                                             SEQUENCE
                                                                                                               Drosophila.";
                                                                                                                                                                                                                SEQUENCE FROM N.A.
MEDLINE=97477378; PubMed=9334334;
                                                                                                                                                                                                                                                                                  NCBI_TaxID=7227;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Short form of CHIP.
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SUBUNIT: F-TYPE ATPASES HAVE 2 COMPONENTS,
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                                           Dev. 11:2729-2740(1997).
AF010326; AAB62575.1; -.
NCE 182 AA; 19474 MW;
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3.6%;
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Pred. No.
  Score
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                                                B4C12B1B167A78AE CRC64;
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  7;
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Length 182;
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                                                                                                                                                enhancer
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RESULT 16
Q97KC
ID 097KC
AC 097KC
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DT 01
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Q8X563;
01-MAR-2002
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Hayashi T., Makino K., Ohnishi M., Kurokawa K., Ishii K., Yokoyama K.,
Han C.-G., Ohtsubo E., Nakayama K., Murata T., Tanaka M., Tobe T.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=21074935; PubMed=11206551; PubMed=11206551; Perna N.T., Plunkett G. III, Burland V., Mau B., Glasner J.D., Rose D.J., Mayhew G.F., Evans P.S., Gregor J., Kirkpatrick H.A., Posfai G., Hackett J., Klink S., Boutin A., Shao Y., Miller L., Grotbeck E.J., Davis N.W., Lim A., Dimalanta E.T., Potamousis K., Apodaca J., Anantharaman T.S., Lin J., Yen G., Schwartz D.C., Welch R.A., Blattner F.R.; Welch R.A., Blattner F.R.; Genome sequence of enterohaemorrhagic Escherichia coli 0157:H7." "Genome sequence of enterohaemorrhagic Escherichia coli 0157:H7."
                           Clostridium acetobutylicum Bacteria; Firmicutes; Clost Clostridium.
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01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
01-UIN-2002 (TrEMBLrel. 21, Last annotation update)
Putative major iimbrial subunit (Putative fimbrial-like
23601 OR ECS3222.
                                                                                                                     Hypothetical CAC0992.
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Enterobacteriaceae; Escherichia.
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01-MAR-2003
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Heidelberg J.F., Paulsen I.T., Nelson W.C., Heidelberg J.F., Paulsen I.T., Nelson W.E., Gaidos E.J., Nelson W.C., Read T.D., Eisen J.A., Seshadri R., Ward N., Methe B., Clayton R.A., Neyer T., Tsapin A., Scott J., Beanan M., Brinkac L., Daugherty S., Meyer T., Tsapin A., Scott J., Beanan M., Brinkac L., Daugherty S., DeBoy R.T., Dodson R.J., Durkin A.S., Haft D.H., Kolonay J.F., Madupu R., Peterson J.D., Umayam L.A., White O., Wolf A.M., Yamathevan J., Weidman J., Impraim M., Lee K., Berry K., Lee C., Vamathevan J., Weidman J., Utterback T.R., McDonald L.A., Feloblyum T.V., Smith H. Gill J., Utterback T.R., McDonald L.A., Feloblyum T.V., Smith H.O., Venter J.C., Nealson K.H., Fraser C.M.; "Genome sequence of the dissimilatory metal ion-reducing bacterium Shewanella oneidensis.";
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STRAIN=ATCC 824 / DSM 792 / VKM B-1787;

MEDLINE=21359325; PubMed=11466286;

MEDLINE=21359325; PubMed=11466286;

Moelling J., Breton G., Omelchenko M.V., Makarova K.S., Zeng Q.,

Gibson R., Lee H.M., Dubois J., Qiu D., Hitti J., Wolf Y.I.,

Tatusov R.L., Sabathe F., Doucette-Stamm L., Soucaille P., Daly M.J.

Bennett-G.N., Koonin E.V., Smith D.R.;

"Genome sequence and comparative analysis of the solvent-producing bacterium Clostridium acetobutylicum.";

J. Bacteriol, 183,4823-4838 (2001).
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Q1-MAR-2003
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STRAIN-NEM316 / Serotype III;

MEDLINE=22242509; PubMed=12354221;

Glaser P., Rusniok C., Buchrieser (
Glaser P., Rusniok C., Couve E., La.

Meadek T., Zouine M., Couve E., La.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    aerophilum.";
Proc. Natl. Acad. Sci. U.S.A. 99:984-989(2002).
EMBL; AE009917; AAL64752.1; -.
Hypothetical protein; Complete proteome.
SEQUENCE 218 AA; 23395 MW; 10C60FC908973C44
                                                                                                                                                                                                                                                                                                                                                                                       Mol. Microbiol. 45:1499-1513(2002).
EMBL; AL766856; CAD47739.1; -.
SagaList; gbe2080; -.
Hypothetical protein; Complete prot
SEQUENCE 223 AA; 24992 MW; E056
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Bacteria; Firmicutes; Lac
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STRAIN=IM2 / ATCC 51768 / DSM 7523;
PubMed=11792869;
Fitz-Gibbon S.T., Ladner H., Kim U.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pyrobaculum aerophilum.
Archaea; Crenarchaeota; Thermoprotei; Thermoprotealea;
Thermoproteaceae; Pyrobaculum.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kunet F.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Genome sequence of Streptococcus agalactiae, invasive neonatal disease.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Genome sequence of the hyperthermophilic crenarchaeon
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Similarity 100.0%;
7; Conservative 0;
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Lactobacillales; Streptococcaceae;
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E0566F4903564CE1 CRC64;
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D. 76;
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C., Trieu-Cuot
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01-OCT-2000 (
01-DEC-2001 (
Hypothetical )
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q9JYW4
Q9JYW4;
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Tettelin H., Masignani V., Cieslewicz M.J., Eisen J.A., Peterson S. Tettelin H., Masignani V., Cieslewicz M.J., Margarit I., Read T.D., Wessels M.R., Paulsen I.T., Nelson K.E., Margarit I., Read T.D., Madoff L.C., Wolf A.M., Beanan M.J., Brinkac L.M., Daugherty S.C., Madoff L.C., Wolf A.M., Beanan M.J., Brinkac L.M., Lewis M.R., DeBoy R.T., Durkin A.S., Kolonay J.F., Madupu R., Lewis M.R., Radune D., Fedorova N.B., Scanlan D., Khouri H., Mulligan S., Carreelli M., Mora Carty H.A., Cline R.T., Van Aken S.E., Gill J., Scarselli M., Mora Iacobini E.T., Brettoni C., Galli G., Mariani M., Vegni F., Maione Rinaudo D., Rappuoli R., Telford J.L., Kasper D.L., Grandi G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Neisseria meningitidis (serogroup B).
Bacteria; Proteobacteria; Betaproteobacteria; Neisseriales;
Neisseriaceae; Neisseria.
                                                                                                                                                        Hypothetical protein; Complete SEQUENCE 242 AA; 28657 MW;
                                                                                                                                                                                                                                   TIGR; NMB1404; -.
                                                                                                                                                                                                                                                                  Science 287:1809-1815(2000).
EMBL; AE002489; AAF41767.1;
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MEDLINE=20175755; PubMed
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EMBL, AE014287, AAN00979.1;
TIGR; SAG2121;
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STRAIN=2603 V/R /
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Bacteria; Firmicutes; Lactobacillales;
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L protein NMB1404.
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Score 7; DB 1; Pred. No. 82; 0; Mismatches
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Q9JTV0;
01-OCT-2000
                                                                                                                 SEQUENCE FROM N.A.

STRAIN=2603 V/R / Serotype V;

MEDLINE=222298B; pubMed=12200547;

MEDLINE=222298B; pubMed=12200547;

Tettelin H., Masignani V., Cieslewicz M.J., Eisen J.A., Peterson S.

Wessels M.R., Paulsen I.T., Nelson K.E., Margarit I., Read T.D.,

Madoff L.C., Wolf A.M., Beanan M.J., Brinkac L.M., Daugherty S.C.,

DeBoy R.T., Durkin A.S., Kolonay J.F., Madupu R., Lewis M.R.,

Radune D., Fedorova N.B., Scanlan D., Khouri H., Mulligan S.,

Carty H.A., Cline R.T., Van Aken S.E., Gill J., Scarselli M., Mora

Iacobini E.T., Brettoni C., Galli G., Mariani M., Vegni F., Maione

Rinaudo D., Rappuoli R., Telford J.L., Kasper D.L., Grandi G.,
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"Complete genome sequence and comparative genomic analysis of an emerging human pathogen, serotype V Streptococcus agalactiae."; Proc. Natl. Acad. Sci. U.S.A. 99:12391-12396(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Streptococcus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Streptococcus agalactiae
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Membrane protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=Z2491 / Serogroup A / Serotype 4A;
MEDLINE=20222556; PubMed=10761919;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Neisseria meningitidis (serogroup A).
Bacteria; Proteobacteria; Betaproteobacteria;
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01-DEC-2001
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                                                                                                  Fraser C.M.;
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(TrEMBLrel. 15, Last sequence update)
(TrEMBLrel. 19, Last annotation update)
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Parry J.P., Peruzzi I
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Viruses; dsDNA viruses, no F
Gammaherpesvirinae; Rhadinov
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                                             MEDLINE=97094384; PubMed=8939871;
Moore P.S., Bashoff C., Weiss R.A.,
"Molecular mimicry of human cytokin
                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
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Y KSHV.";
274:1739-1744(1996).
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RNA stage; Herpesviridae;
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Notpel F., Albrecht J.C., Fleckenstein B.;
"Cell-homologous genes in the Kaposi's sarcoma-associated rhadinovirus human herpesvirus 8: determinants of its pathogenicity?";
J. Virol. 71:4187-4192(1997).
EMBL; U75698; AAC57124.1; -.
EMBL; U93672; AAB62653.1; -.
EMBL; U93672; AAB62653.1; -.
InterPro, IPR002600; Herpes UL7.
Pfam; PF01677; Herpes UL7; 1.
SEQUENCE 278 AA; 31225 MW; 1206A1893811EB46 CRC64;
                                                                                                                                                                                                                                                                                                                                      Johnston M., Hiller L., Riles L., Albermann K., Andre B., Ansorge W.,
Benes V., Bruckner M., Delius H., Dubois E., Dusterhoft A.,
Entian K.D., Floeth M., Goffeau A., Hebling U., Heumann K.,
Entian K.D., Floeth M., Goffeau A., Hebling U., Heumann K.,
Heuss-Neitzel D., Hilbert H., Hilger F., Kleine K., Kotter P.,
Louis E.J., Messenguy F., Mewes H.W., Miosga T., Mostl D.,
Muller-Auer S., Nentwich U., Obermaier B., Piravandi E., Pohl T.M.,
Portetelle D., Purnelle B., Rechmann S., Rieger M., Rinke M., Rose M.,
Scharfe M., Scherens B., Scholler P., Schwager C., Schwarz S.,
Underwood A.P., Urrestarazu L.A., Vandenbol M., Verhasselt P.,
Vierendeels F., Voet M., Volckaert G., Voss H., Wambutt R., Wedler E.,
Wedler H., Zimmermann F.K., Zollner A., Hani J., Hobeisel J.D.;
"The nucleotide sequence of Saccharomyces cerevisiae chromosome XII.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Saccharomyces cerevisiae (Baker's yeast).
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
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01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-UN-2002 (TrEMBLrel. 21, Last annotation update)
Chromosome XII COSMID 8084.
YLR404W OR L8084.3.
                                                           Submitted (SEP-1997) to the EMBL/GenBank/DDBJ EMBL; U19729; AAB82342.1; -. SGD; S0004396; YLR404W.
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Q06058
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SEQUENCE FROM N.A.
                                                SEQUENCE
                                                                                                          Cherry J.M.
                                                                                                                                                                     Submitted (JAN-1995)
                                                                                                                                                                                                       STRAIN-S28
                                                                                                                                                                                                                                                                                                                              Nature 387:0-0(0).
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                                                                                                                          STRAIN-S288C;
                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                     Waterston
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                                                                                                                                                                                                                                               Submitted (JAN-1995)
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o. 92;
   DB 3;
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                Length 285;
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InterPro; IPR003781; CoA binding.
InterPro; IPR005811; CoA binding.
InterPro; IPR005810; CoA ligase.
InterPro; IPR005810; CoA ligase.
Pfam; PF00549; CoA binding; 1.
Pfam; PF00549; Iigase-CoA; 1.
IIGRFAMs; IIGR01019; SucCCAalpha; 1.
IIGRFAMs; SUCCINYL COA LIG_1; 1.
PROSITE; PS001216; SUCCINYL COA LIG_2; 1.
Ligase; Complete Proteome.
SEQUENCE 294 AA; 30259 MW; BD9198F23E30
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01-OCT-2002
01-OCT-2002
01-MAR-2003
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Q9V263;
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01-MAY-2000 (TrEMBLrel. 13,
01-OCT-2002 (TrEMBLrel. 22,
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01-OCT-2002 (TYEMBLYE1. 22, Last sequence update)
01-MAR-2003 (TYEMBLYE1. 23, Last annotation update)
Succinyl-CoA synthetase alpha subunit (EC 6.2.1.5).
                                                                                                                                                                     structure and evolution.";
Submitted (JUL-1999) to the EMBL/GenBank/DDBJ databases
EMBL; AJ248283; CAB49335.1;
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STRAIN=ATCC 13032 / DSM 20300 / NCIB
Nakagawa S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Corynebacterium glutamicum (Brevibacterium flavum).
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
                                                                                                        InterPro; IPR002754; PhoU. Pfam; PF01895; PhoU; 1.
                                                                                                                                                                                                                                                                                                                                               STRAIN=GE5
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Archaea; Euryarchaeota;
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                                                                                                                                                                                                                                                                                 "Pyrococcus abyssi genome sequence: insights into archaeal
                                                                                                                                                                                                                                                                                                              Heilig R.;
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                                       Complete proteome
                                                                        ProDom; PD014067; PhoU; 1.
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Last annotation updat
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   643EE120BDA1466D CRC64;
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o. 97;
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databases.
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RESULT OF THE ENGINEER OF THE 
                                                                                           Adams D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
Adams M.D., Celniker S.E., Holt R.A., Hoskins R.A., Galle R.F.,
RA decrye R.A., Lewis S.E., Holt R.A., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Kichards S., Ashburner M., Henderson S.N.,
RA Button G.G., Wortman J.R., Yandell M.D., Zhang O., Chen L.X.,
RA Barandon R.C., Rogers Y.H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Han K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Han K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Burkis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Ge Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Durbin K.J., Evangelista C.C., Ferriera S., Dunkov B.C., Dunn P.,
Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibegwam C.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Khip D., Lai Z.,
Kalmel B.E., Kodira C.D., Kraft C., Kravitz S., Khip D., Lai Z.,
Liang Y., Lin X.,
RA Merkulov G., Milshina N.V., Mobarry C., Mcriberson D.
RA Merkulov G., Milshina N.V., Mobarry C., McPherson D.
RA Melson D.R., Welson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Syler B.C., Stens K.A., Nuson M., Strong R., Sun E.,
RA Syler B.C., Stens I., Singson M., Stupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Syler B.M., Woods T. C., McDer R., Wang A.H., Wang X.,
Rang J., Yeh R.-F., Zaveri J. S., Zana M., Zanag G., Zana Q., Zheng L.,
RHOLL S., Levitsky S., Shan M., Zhang G., Zhao Q., Zheng L.,
RHOLL S., Shan M., Shong M., Weitsen D.C.,
Rholl S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ş
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Best Local S
Matches 7
Pram;
PRINTS; Proc.
TWART; SM00516;
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Q9VNB4;
01-MAY-2000
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Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-OCT-2002 (Tr
CG2663 protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Drosophila melanogaster (Fruit fly).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=20196006; PubMed=10731132;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VLNPDGS 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VLNPDGS 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (TrEMBLrel. 13, (TrEMBLrel. 13, (TrEMBLrel. 22,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRELIMINARY;
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                                                                                  CRAL
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-449 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Last sequence update)
Last annotation update)
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M., Henderson S.N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    308
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01-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Isogai T., Ota T., Hayashi K., Sugiyama T., Otsuki T., Suzuki Y., Nishikawa T., Nagai K., Sugano S., Shiratori A., Sudo H., Wagatsuma M., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara | Takahashi M., Chiba Y., Ishida S., Murakawa K., Ono Y., Takiguchi Watanabe S., Kimura K., Murakami K., Ishii S., Kawai Y., Saito K., Yamamoto J., Wakamateu A., Nakamura Y., Nagahari K., Masuho Y., Ninomiya K., Iwayanagi T., "NEDO human cDNA sequencing project."; "NEDO human cDNA sequencing project."; Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases. EMBL, AKO02080, BAA92073.1; -.
MEDLINE-20196006; PubMed-10731132;
Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
Adams M.D., Celniker S.E., Li P.W., Hoskins R.A., Galle R.F.,
Amanatides P.G., Scheerer S.E., Li P.W., Hoskins R.A., Galle R.F.,
George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q8I099
                                                                                                                                                                                                                                                                                                                                                                                             Drosophila melanogaster (Fruit fly).

Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygol
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
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                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CG2663.
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Isogai T., Ota T.,
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Homo sapiens (Human).
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315, AA; 3
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RA Borkova D., Botchan M.R., Bouck J., Broketein P., Bolshakov S.,
RA Burtie K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Chas S., Dietz S.M.,
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RA Glodek A., Gong F., Gorrell J.H., Gu Z.,
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RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
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RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Melson D.R., Nelson K.A., Nixon K., Nuaskern D.R., Pacleb J.M.,
RA Nelson C.R., Pittman G.S., Pan S., Pollard J., Put V., Reese M.G.,
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RA Syler E., Spradling A.C., Stapleton M., Skupski M.P., Smith T.,
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Callson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,

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A Gonzalez M., Houck J., Hoskins R.A., Hostin D., Howland T.J.,

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AN Gonzalez M., Frise D., Li P., Mattei B., Moshrefi A.,

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Pacleb J., Paragas V., Park S., Patel S., Pfeiffer B.,

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George R., Gonzalez M., Guarin H., Kronmiller
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Adams M.D., Celniker
Submitted (MAR-2000)
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J., Berman B.P., Bhandari D., Bo
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Farfan D., F.
F B., Li P., L.
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  Liao G.,
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Patel S., Phouanenavong S., Wan N.,

Celniker S.;

Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.

EMBL; BE003603; AAN13281.1; -.

EMBL; BT001686; AAN71441.1; -.

EMBL; BT001686; AAN71441.1; -.

COODIDBFF394B3FD CRC64;

COONTROLE 315 AA; 36210 MW; C30DIDBFF394B3FD CRC64;
                                        STRAIN=A3(2);
Cerdeno A.M.,
Submitted (OCT
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Q9EWX3; O1-MAR-2001 (TrEMBLrel. 16,
01-MAR-2001 (TrEMBLrel. 16,
01-MAR-2003 (TrEMBLrel. 23,
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Hao G., O'Connor M., Liu W., Roelofs W.L.;
Hao G., O'Connor M., Liu W., Roelofs W.L.;
"Cloning and expressing of desaturase genes from oblique leafroller moths, Choristoneura rosaceana.";
Submitted (SEP-2002) to the EMBL/GenBank/DDBJ databases EMBL; AF545481; AAN41250.1; -.
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Choristoneura rosaceana (Oblique banded leafroller)
                                                                                                                                                                                                                                                                                                  Streptomyces coelicolor.
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
                                                                                                                                                                                                                                                                                                                                               Putative integral membrane SCO1753 OR 2SCI34.06.
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Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia;
Tortricoidea; Tortricidae; Tortricinae; Choristoneura.
                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                  Saunders D.
                                                                                                                                                                                               STRAIN=A3(2)
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Yu C., Lewis S.E., Rub
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                                                     Q961T4
                                                                                 RESULT 35
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Q9BS33;
01-JUN-2001
01-JUN-2001
01-MAR-2003
Q961T4
Q961T4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-JUN-2001 (TrEMBLrel. 17, Created)
01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
01-JUR-2003 (TrEMBLrel. 23, Last annotation update)
Similar to hypothetical protein FLJ11218.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR000326; PA_PTPase.
Pfam; PF01569; PAP2; 1.
SMART; SM00014; acidPPc; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Complete genome sequence of the model actinomycete Streptomyces coelicolor A3(2).";
Nature 417:141-147(2002).
EMBL; AL939110; CAC12926.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=97000351; PubMed=8843436;
Redenbach M., Kieser H.M., Denapaite D., Eichner A
Kinashi H., Hopwood D.A.;
"A set of ordered cosmids and a detailed genetic a
the 8 Mb Streptomyces coelicolor A3(2) chromosome.
Mol. Microbiol. 21:77-96(1996)
                                                                                                                                                                                                                                                                                                                                                                                       Hypothetical protein. SEQUENCE 342 AA; 37833 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (MAR-2001) to the EMBL/GenBank/DDBJ EMBL; BC005364; AAH05364.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Strausberg R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE=Kidney;
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7; Conserv
                                                                                                                                                                                                                                                                            Similarity 7; Conserv
                                                                                                                                                                                                                         LEAVSYS
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%; Pred. No. 1.1
0; Mismatches
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                               357
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es 0;
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01-DEC-2001
01-MAR-2003
GH08848p.
                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.

MEDLINE=97477378; PubMed=9334334;

Morcillo P., Rosen C., Baylies M.K.,

"Chip, a widely expressed chromosoma:
segmentation and activity of a remot
Drosophila.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-JAN-1998 (TrEMBLrel.
01-JAN-1998 (TrEMBLrel.
01-DEC-2001 (TrEMBLrel.
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PROSITE; PS50011; PROTEIN KINASE DOM; 1.
PROSITE; PS00108; PROTEIN_KINASE_ST; 1.
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                                                                                                                                                                                                                         Pfam; PF01803; LIM_bind; 1
SEQUENCE 365 AA; 39437
                                                                                                                                                                                                                                                  EMBL; AF010328; AAB62577.1; -. InterPro; IPR002691; 'LIM_bind. Pfam; PF01803; LIM_bind; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ephydroidea; Dro
NCBI_TaxID=7227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygo!
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
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InterPro; IPR000719; Prot_k
InterPro; IPR002290; Ser_th
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                                                                                                           Local Similarity
nes 7; Conserv
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     VLNPDGS
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ilarity 100.0%;
Conservative
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                                                                                                                Conservative
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Brokstein P., Hong L., Agpa
ممتعدل V., Farfan
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23,
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                                                                                                                                                                                                                                                                                                                                                                                                                      chromosomal
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Last sequence that annotation
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Last annotation update)
                                                                                                           Score 7; DB 5; Pred. No. 1.2
0; Mismatches
                                                                                                              0;
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Pred. No
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                                                                                                                                                                                                                         F83187B002EC1566 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                          remote
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence up
                                                                                                                                                                                                                                                                                                                                                                                                                                                Dorsett
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                                                                                                                                          DB 5; Le
5. 1.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                       protein required wing margin enhan
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                                                                                                                                                                   Length 365;
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SEQUENCE FROM N.A.

STRAINATCC 33913 / NCCPB 528;

REDLINE=22022145; PubMed=12024217;

A ALOS SILVA A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R.,

A Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F.,

A Alves L.M.C., do Amaral A.M., Bertolini M.C., Camargo L.E.A.,

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Paria J.B., Perreira A.J.S., Ferreira R.C.C., Ferro M.I.T.,

Pormighieri E.F., Franco M.C., Greggio C.C., Gruber A.,

A Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,

Locali E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,

Martins E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,

Martins E.C., Meidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H.,

A Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,

Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F.,

Spinola L.A.F., Takita M.A., Tamura R.E., Teixeira B.C., Tezza R.I.D.,
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Matches 7
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A Matsumoto K., Hirano M., Sano S., Nomura R., Yoshikawa Y.,
A Matsumoto K., Mirano M., Sano S., Nomura R., Yoshikawa Y.,
A Matsumura Y., Moriya S., Chiba E., Momiyama H., Onogawa S.,
A Kuga N., Kuroda A., Satoh I., Kamata K., Takahashi E., Kataoka R.,
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A Ishii S., Yamamoto J., Isono Y., Kawai-Hio Y., Saito K., Nishikawa T.,
A Kimura K., Yamashita H., Matsuo K., Nakamura Y., Sekine M.,
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A Kimura K., Yamashita H., Matsuo K., Nakamura Y., Sekine M.,
A Kimura K., Yamashita H., Matsuo K., Narakawa K., Kanehori K.,
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Suyano S., Nagahari K., Masuho Y., Nagai K., Isogai T.;
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Submitted (JTL-2002) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q8PCM8;
Q8PCM8;
01-OCT-2002
01-OCT-2002
01-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q8N998;
Q8N998;
01-OCT-2002
01-OCT-2002
01-MAR-2003
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Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-OCT-2002 (TrEMBLrel. 22, Created)
01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Hypothetical protein FLJ38159.
Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Xanthomonas campestris (pv. campestris).
Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
Xanthomonadacese; Xanthomonas.
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RIBA OR XCC0696.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cyclohydrolase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       306
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|DRKHALE 312
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (TTEMBLrel. 22, Created)
(TTEMBLrel. 22, Last sequence update)
(TTEMBLrel. 23, Last annotation update)
drolase II/3,4-dihydroxy-2-butanone 4-phosphate
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,000
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DB
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1.2e+02;
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Ad ASilva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R.,

Ad Asilva A.C.R., Ferro J.A., Reinach F.C., Camargo L.E.A.,

A Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F.,

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A Locali E.G., Cannavan F., Cardozo J., Chambergo F., Ciapina L.P.,

A Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorry H.,

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A Paria J.B., Ferreira A.J.S., Ferreira R.C.C., Gruber A.,

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A Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,

A Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F.,

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AN Martins E.C., Meidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H.,

AN Moreira H.A., Rossi A., Sana J.A.D., Silva C., de Souraa R.F.,

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A Spinola L.A.F., Takita M.A., Truffi D., Tsai S.M., White F.F.,
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Best Local S
Matches 7
Query Match
Best Local S
Matches
                                                                                                                                                      host specificities.";
Nature 417:459-463(2002).
EMBL; AE011704; AAM35638.1; -
InterPro; IPR000422; DHBP synthase.
InterPro; IPR000926; GTP cyclohydroII.
Pfam; PF00926; DHBP synthase; 1.
Pfam; PF00925; GTP cyclohydro2; 1.
ProDom; PD003034; DHBP synthase; 1.
TICRFAMs; TIGR00506; rIbB; 1.
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Nature 417:459-463(2002).
EMBL; AE012168; AAM40012.1; -
InterPro; IPR000422; DHBP synthase.
InterPro; IPR000926; GTP cyclohydroII.
Pfam; PF00926; DHBP synthase; 1.
Pfam; PF00925; GTP cyclohydro2; 1.
ProDom; PD003034; DHBP synthase; 1.
TICRFAMs; TIGR00506; rIbB; 1.
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SEQUENCE
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01-MAR-2003 (TrEMBLrel.
GTP cyclohydrolase II.
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STRAIN=306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Xanthomonas axonopodis (pv. citri).
Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q8PPD7
                                                                                                                                                                                                                                                                                                                                                                                                Setubal J.C., Kita:
"Comparison of the
                                                                                                                                                                                                                                                                                                                                                                                                                           Trindade dos Santos M., Truffi D., Setubal J.C., Kitajima J.P.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Xanthomonas axonopodis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Trindade
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kanthomonadaceae; Xanthomonas.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'Comparison of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         165
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  Similarity
7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VLNPDGS 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                dos Santos M.,
                                                                                                        Complete 379 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Complete proteome. 376 AA; 40803 MW;
  3.6%; Score 7; DB ilarity 100.0%; Pred. No. 1. Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (larity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 M N.A.
ATCC 13902 / XV 101;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kitajima J
                                                                                                                                                                                                                                                                                                                                                                                  genomes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         genomes
                                                                                                        proteome.
41176 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3.6%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               of two
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0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   citri).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F9E5A7DA4B706798 CRC64;
                                                                                                           E88FF92AD596442E CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sequence update)
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                                                                                                                                                                                                                                                                                                                                                                                                Xanthomonas pathogens with differing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Xanthomonas
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                           DB 16; L
o. 1.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 16; Length 376;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                S.M.,
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                                                      Length 379
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VLNPDGS

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Q9XDF8
ID Q9XDF8
ID Q9
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Best Local S
Matches 7
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Q9XDF8;
01-NOV-1999
01-NOV-1999
01-MAR-2003
InterPro; IPR004516; Hiss.

InterPro; IPR004516; Hiss.

InterPro; IPR002314; tRNA-synt 2b.

InterPro; IPR006195; tRNA ligase II.

Pfam; PF03129; HGTP anticodon; 1.

Pfam; PF00587; tRNA-synt 2b; 1.

TIGRPAMs; TIGR00442; hiss; 1.

PROSITE; P$50862; AA TRNA_LIGASE II; 1.
                                                                                                                                                                                                                                  "Complete genomic sequence of Corynebacterium Submitted (MAY-2002) to the EMBL/GenBank/DDBJ EMBL, AP005279; BABB9040.1; -. IRECTP: IPR004154; HGTP_anticodon.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Corynebacterium glutamicum (Brevibacterium flavum).
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Corynebacterineae; Corynebacteriaceae; Corynebacterium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Walczak R.J., Woo A.J., Strohl W.R., Priestley N.D.;
"Nonactin biosynthesis: the potential nonactin biosynthesi
cluster contains type II polyketide synthase-like genes.";
FEMS Microbiol Lett. 183:171-175 (2000).
EMBL; AF074603; AAD37450.1; -.
InterPro; IPR000794; Ketoacyl-synt.
                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
STRAIN=ATCC 13032 / DSM 20300 / NCIB 10025;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           QBNQ07;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q8NQ07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pfam; PF00109; ketoacyl-synt; 1.
Pfam; PF02801; ketoacyl-synt_C; 1.
Pf0SITE; PS00606; B_KETOACYL_SYNTHASE; 1.
SEQUENCE 425 AA; 44410 MW; D0176D6F9D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN=ETH A7796;
MEDLINE=20117817; PubMed=10650222;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Streptomyces griseus subsp. griseus.
Bacteria; Actinobacteria; Actinomycetales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NONK.
                                                                                                                                                                                                                                                                                                                                               Nakagawa S.;
                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.
                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=1718;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGL1647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Histidyl-tRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-MAR-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Streptomycineae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=67263;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DAKSLFV 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DAKSLFV 25
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (TTEMBLrel. 22, Created)
(TTEMBLrel. 22, Last sequence update)
(TTEMBLrel. 23, Last annotation update)
NA synthetase (EC 6.1.1.21).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Streptomycetaceae;
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100.0%; Pr
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0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               D0176D6F9D265926 CRC64;
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0;
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biosynthesis
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Q9DA19
AC Q9DA19
RP SEQUENCE FROM N.A.

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Testis;

RC STRAIN=C57BL/6J; TISSUE=Testis;

RX MEDLINE=21085660; PubMed=11217851;

RX KAWAI J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,

RA KAWAI J., Shinagawa A., Shibata K., Yoshino H., Adachi J., Fukuda S.,

RA Aizawa T., Hara A., Fukunishi Y., Konno H., Kasukawa T., Saito R.,

RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,

RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kasukawa T., Saito R.,

RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,

RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,

RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,

RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

RA Kuchl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,

RA Saki K., Okido T., Furuno M., Aono H., Baidarelli R., Barsh G.,

RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,

RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,

RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,

RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,

RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT
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      RRROCCOSSETTE
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Best Local S
Matches 7
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Best Local &
Matches 7
                                                                                                                                                                                                                                                                                           Q9SN76;
Q9SN76;
Q1-MAY-2000
Q1-MAY-2000
Q1-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.

STRAIN-SUNYAB 75;

SUZUKI N., Nakano Y., Yoshida Y., Nako H., Yamashita Y., Koga T.;

SUZUKI N., Nakano Y., Yoshida Y., Nako H., Yamashita Y., Koga T.;

"Genetic analysis of the gene cluster for the synthesis of serotype specific polysaccharide antigen in A. actinomycetemcomitans.";

submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.

Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.

Submitted (JUL-2000) BAB03211.1; -.

InterPro, IPR003362; Bact transf.

Pfam; pF02397; Bact transf; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q9JRN2 PRELIMINARY; PRT; 472 AA.
Q9JRN2,
Q1-OCT-2000 (TrEMBLrel. 15, Created)
Q1-OCT-2000 (TrEMBLrel. 15, Last sequence update)
Q1-JUN-2001 (TrEMBLrel. 17, Last annotation update)
Putative glycosyltransferase.
Actinobacillus actinomycetemcomitans (Haemophilus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F., Suzuki H., Toyo-oka K., Wang K.H., Weitz C.; Whittaker C., Wilming L., Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S., Hayashizaki Y.;
                                                                                                               Eukaryota; Viridiplantae; Streptophyta; Embryophyta, Spermatophyta; Magnoliophyta; eudicotyledona; core eurosida II; Brassicales; Brassicaceae; Arabidopsia
                                                                                                                                                                                                                                     Hypothetical F1P2.170.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MGD; MGI:1914185; 1700023B02Rik.
InterPro; IPR000345; CYCC_heme_bind.
PROSITE; PS00190; CYTCCHRÖME_C; 1.
SEQUENCE 450 AA; 51852 MW; F32F11BE6D6A4EAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Functional annotation of a full-length Nature 409:685-690(2001).
EMBL: AKO06250; BAB24488.1; -.
SEQUENCE FROM N.A. Choisne N., Robert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bacteria; Proteobacteria; Gammaproteobacteria; Pasteurellales;
Pasteurellaceae; Actinobacillus
Nost Tarteriae;
                                                                                                                                                                                                       Arabidopsis thaliana (Mouse-ear cress).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     actinomycetemcomitans).
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nes 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                142 KINKISL 148
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      Robert
                                                                                                                                                                                                                                                                (TrEMBLrel. 13, Created)
(TrEMBLrel. 13, Last sequence update)
(TrEMBLrel. 22, Last annotation updat
1 51.0 kDa protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                              PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          362
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/ 100.0%; Pr
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      Brottier
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0; Mismatches
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      Wincker P.,
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No. 1.4e+02;
0;
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5. 1.5e+02;
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edona; core eu
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         Cattolico
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RESULT 47
Q93Z0
ID Q93Z0
AC Q93Z0
AC Q93Z0
DT 01-DE
DT 01-DE
DT 01-OC
DE AT394
OC Sperm
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Q95UR9
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Best Local S
Matches 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             of axis formation and segmentation.";
Development 128:3459-3472(2001).
EMBL; AV040605; AAX84959-1; -.
InterPro; IPR007087; Znf C2H2.
Pfam; PF00096; Zf-C2H2; 4.
SMART; SW00355; ZnF C2H2; 6.
PROSITE; PS00028; ZINC_FINGER_C2H2_1; 2
PROSITE; PS00028; ZINC_FINGER_C2H2_2; 4.
Meral-shiding. Zinc_Finer_C2H2_2; 4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q95UR9;
01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Transcription factor hunchback (Fragment).
O93Z00 PRELIMINARY; PRT; 489 AA.
093Z00;
01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
AT3g47620/F1P2_170.
AT3bidopsis thallana (Mouse-ear cress).
Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EU Arabidopsis sequencing project;
Submitted (NOV-1999) to the EMBL/GenBank/DDBJ
EMBL; AL132955; CAB61988.1; -
InterPro; IPR005333; TCP.
Pfam; PF03634; TCP; 1
Hypothetical protein.
SEQUENCE 477 AA; 50987 MW; C0049F7171D7E39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Artiguenave F., Saurin W., Weissenbach J., Mewes H.W., Lemcke Mayer K.F.X., Quetier F., Salanoubat M.; Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Schistocerca americana (American grasshopper).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Orthopteroidea; Orthoptera; Caelifera; Acridomorpha;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Metal-binding; Zinc; ZInc-finger.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=21450564; PubMed=11566852; Patel N.H., Hayward D.C., Lall S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Acridoidea; Acrididae; Cyrtacanthacridinae;
NCBI_TaxID=7009;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         HUNCHBACK.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Grasshopper hunchback expression reveals
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7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7; Conserv
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0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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). 1.5e+02
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conserved and
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Query Match
                                                                                                                     "Grasshopper hunchback expression reveals co
of axis formation and segmentation.";
Development 128:3459-3472(2001).
EMBL; AY040538; AAK81873.1;
InterPro; IPR007087; Znf C2H2.
Pfam; PF00096; Zf-C2H2; 5.
SMART; SM00355; ZnF C2H2; 6.
PROSITE; PS00028; ZINC_FINGER_C2H2 1; 2.
PROSITE; PS00028; ZINC_FINGER_C2H2 2; 4.
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Hayashizaki Y., Ishida J., Jiang P.X., Jones T., Kamiya A.,
Karlin Neumann G., Kawai J., Lam B., Lee J.M., Lin J., Liu S.X.,
Miranda M., Narusaka M., Nguyen M., Onodera C.S., Palm C.J.,
Pham P.K., Quach H.L., Sakurai T., Satou M., Seki M., Southwick A.,
Tang C.C., Toriumi M., Yamada K., Yamamura Y., Yu G., Yu S.,
Shinozaki K., Davis R.W., Theologis A., Ecker J.R.;
"Arabidopsis cDNA clones.";
Submitted (SEP-2001) *~ **L" """
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (MAY-2002) to the EMBL/GenBank/DDBJ EMBL; AY058874; AAL24261.1; -. EMBL; AY103304; AAM65356.1; -. InterPro; IPR005333; TCP. Pfam; PF03634; TCP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kim C.J., Chen H., Cheuk R., Meyers M.C., Shinn P., Banh J., Bowser L., Carninci P., Chang E., Dale J.M., Goldsmith A.D., Hayashizaki Y., Ishida J., Jones T., Kamiya A., Karlin-Neumann G., Kawai J., Lam B., Lee J.M., Lin J., Miranda M., Narusaka M., Kawai J., Lam B., Lee J.M., Lin J., Miranda M., Narusaka M., Satou Nguyen M., Onodera C.S., Palm C.J., Ouach H.L., Sakurai T., Satou Seki M., Southwick A., Tang C.C., Toriumi M., Wu H.C., Yamada K., Yamamura Y., Yu G., Yu S., Shinozaki K., Davis R.W., Theologis A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Orthopteroidea; Orthoptera; Caelifera; Acridomorpha;
Acridoidea; Acrididae; Oedipodinae; Locusta.
                                                                                                                                                                                                                                                                                                                                                                         Patel N.H., Hayward D.C., Lall
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                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=21450564; PubMed=11566852;
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                                                                                  ON TER
                                                                                                  Metal-binding;
                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=7004;
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                                                                                                       Zinc;
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  . 68 ;
                                                      MW.
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Pred. No.
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                                                      0E0862E6B4BF4A15 CRC64;
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     7;
                                                                                                                                                                                                                                                                                                                                          Pirkl N.R., DiPietro D., Ball E.E. reveals conserved and novel aspects
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o. 1.5e+02;
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  Length 512;
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RC STRAIN=Borkeley;
RX MEDLINE=20196006; PubMed=10731132;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Adams M.D., Celniker S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Ballaw R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Ballaw R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Borkova D., Botchan D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Horitis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
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                      RESULT
Q9VRP6
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Best Local S
Matches 7
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Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRAIN-Sprague-Dawley, TISSUE-Liver;
Kessler F.K., Kessler M.R., Auyeung D.:
"Glucuronidation of acetaminophen catal
UDP-glucuronosyltransferases.";
Drug Metab. Dispos. 0:0-0(2002).
EMBL; AF461734; AAL67850.1; -.
InterPro; IPR002213; UDP gluco_trans.
Pfam, PF00201; UDPGT; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q9VRP6;
01-MAY-2000 (TrEMBLrel. 13, 0
01-OCT-2002 (TrEMBLrel. 22, 1
01-MAR-2003 (TrEMBLrel. 23, 1
CG32417 protein.
MYT1 OR CG10569 OR CG32417.
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01-MAR-2002 (TrEMBLrel. 20,
01-MAR-2003 (TrEMBLrel. 23,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q8VD45
Q8VD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ephydroidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Hexa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q9VRP6
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Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      UDP-glucuronosyltransferase Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
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120 VLNPDGS 126
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Drosophilidae;
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M.R., Auyeung D.J., Ritter
etaminophen catalyzed by m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Last sequence up
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A18E5C6AEB5B07FA CRC64;
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hes 0;
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by multiple rat phenol
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RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferrara S., Fleischmann W.,
RA Fosler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Harris C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Hostin M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Liu X., Mattei B., McIntosh T.C., McLedd M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Melson D.R., Nelson K.A., Nixon K., Nusskern D.R., Paeleb J.M.,
RA Melson D.R., Nelson K.A., Nixon K., Nusskern D.R., Paeleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Sanders R.D.C., Scheeler F., Shen H.,
RA Spier E., Spradling A.C., Stapleton M., Skupski M.P., Smith T.,
RA Wang Z.-Y., Wassarman D.A., Weinstock G.M., Weissenbach J.,
Wang Z.-Y., Wassarman D.A., Weinstock G.M., Weissenbach J.,
Wang S.M., Woodleg T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong W., Rubin G.M., Venter J.C.;
"The genome sequence of Drosophila melanogaster.";
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A Celniker S.E., Adams M.D., Kronmiller B., Wan K.H., Holt R.A.,

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A Carlson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,

A Dodson K., Dorsett V., Doup L.E., Doyle C., Dresnek D., Parfan D.,

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A Forriera S., Frise E., Galle R.F., Garg N.S., Hostin D., Howland T.J.,

A Forriera S., Frise E., Galle R.A., Hostin D., Howland T.J.,

A Ibegwam C., Jalali M., Kruse D., Li P., Mattei B., Moshrefi A.,

A McIntosh T.C., Moy M., Murphy B., Nelson C., Nelson K.A., Nunco J.,

A McIntosh T.C., Moy M., Murphy B., Nelson C., Nelson K.A., Nunco J.,

A Pacleb J., Paragas V., Park S., Patel S., Pfeiffer B.,

A Phouanenavong S., Pittman G.S., Puri V., Richards S., Scheeler F.,

A Staplecon M., Strong R., Svirskas R., Tector C., Tyler D.,

Staplecon M., Strong R., Svirskas R., Tector C., Tyler D.,

Milliams S.M., Zaveri J.S., Smith H.O., Venter J.C., Rubin G.M.;

"Sequencing of Drosophila melanogaster genome.";

Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
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ProDom; PD000001; Prot_kinase; 1.

SMART; SM00220; S_TKC; 1.

SMART; SM00219; TYTKC; 1.

PROSITE; PS00107; PROTEIN_KINASE_ATP;

PROSITE; PS50011; PROTEIN_KINASE_DOM;
                                                                                                                                                                                                                                       Submitted (SEP-2002) to the EMBL/GenBank/DDBJ databases EMBL; AE003565; AAF50747.3; -. FBgn0040298; Mytl. InterPro; IPR000719; Prot_kinase. InterPro; IPR0002290; Ser_thr_pkinase. InterPro; IPR0002290; Ser_thr_pkinase. Pfam; PF00069; pkinase; I.
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     The present sequence comprises an incomplete open reading frame
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 1323;
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Best Local Similarity
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                                                                                                                                                                                      New nucleic acid encoding new serine protease inhibitors from fleas - and related antibodies, inhibitors, recombinant viruses and cells, useful for control of fleas on animals, especially cats and dogs
                       The present sequence, designated nfSPI8-549, encodes a Ctenoceph fells serine protease inhibitor (SPI) variable domain protein. To complementary strand is represented by AAV38762. The SPI protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 2; Page 139; 176pp; English.
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represents a novel target

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; secreted protein; fusion protein; gene therapy; protein therapy; diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia; developmental abnormality; foetal deficiency; blood; allergy; renal; ds; immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma; inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS; cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus; osteoporosis; arthritis; testis; lung; thyroiditts; thyroid; digestion; endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and drugs. Compositions containing the inhibitor are used to control fleas (adults or larvae) on mammals or birds, particularly cats and dogs. More generally the composition is also used for control of insects and acarina, on animals or on stored goods, plants, trees etc. including domestic pests and insects that are vectors of disease. The SPI proteins are able to induce a protective immune response against SPI.
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97US-0056878.
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97US-0056889.
97US-0056880.
   GENOME
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97US-0056631
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-043314P -043313P -043312P -043311P -040626P -04033

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RESULT 5
ABS73545
ID 74857
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the human cDNA clone HFCAI74 (deposited as clone ATCC 97899 and ATCC CC 209045) which encodes a secreted human protein. The gene can be used to CC generate fusion proteins by linking to the gene to a human CC immunoglobulin Fc portion (e.g. AAV59502) for increasing the stability of CC the fused protein as compared to the human protein only.

CC The invention relates to 186 novel genes and their fragments (nucleic cc acid sequences: AAV59511-V59812; amino acid sequences AAW74731-W75026) CC which are useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. Also, pathological conditions CC can be diagnosed by determining the amount of the new polypeptides in a CC gample or by determining the presence of mutations in the new polynucleotides. Specific uses are described for each of the 186 CC polynucleotides, based on which tissues they are most highly expressed in CC gee AAV59511 for described uses).
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Matches 29
   07-MAR-1997;
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07-MAR-1997;
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Feng P, Ferr
Kyaw H, Lafl
                                                                                                                                                                                                                              Human; ss; gene; secreted protein; autoimmune disease; chemotaxis; rheumatoid arthritis; hyperproliferative disorder; breast neoplasm; liver neoplasm cardiovascular disorder; cardiac arrest; skin aging; cerebrovascular disorder; cerebral ischaemia; angiogenesis; sunburn; nervous system disorder; Alzheimer's disease; infection; ocular disorder; corneal infection; wound healing; tissue regeneration; epithelial cell proliferation; organ transplantation; food additive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated human genes and the secreted - useful for diagnosis and treatment of e disorders, immune diseases, inflammation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1049 BP;
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                                                                                                                                                                                   Homo
                                                                                                                                                                                                                    preservative;
                                                                                                                                                                                                                                                                                                                                                                     Human cDNA
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P, Ferrie AM, Fischer CL, Florence KA, Greene JM, Hu J
H, Lafleur DW, Li Y, Moore PA, Ni J, Olsen HS, Rosen
n SM, Shi Y, Soppet DR, Young PE, Yu GL, Zeng Z;
                                                                                                                                                                                   sapiens
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Similarity 100.0%;
29; Conservative 0;
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                                                                                                                                                                                                                    nutritional.
 .97US-038621P.
97US-040161P.
97US-040162P.
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IM, Hu JS;
Rosen CA;
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23 - MAY - 1997;
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97US-047588P.
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97US-047500P.
97US-047501P.
97US-047502P.
97US-047503P.
97US-047581P.
97US-047582P.
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97US-047613P.
97US-047615P.
97US-047615P.
97US-047612P.
97US-047632P.
97US-048974P.
97US-048974P.
97US-049610P.
97US-0552874P.
97US-0552874P.

97US-056631P. 97US-056632P. 97US-056636P. 97US-056637P.

S-056664P. S-056845P. S-056862P.

-056662P

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1012 AAGTAAAAAAAAAAAAAAAAAAAACTCGAG 1040

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disorders e.g. neoplasms of the breast or liver, Cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g. cerebral ischaemia, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection. The polypeptides can also be used to aid wound healing and epithelial cell prollieration, to prevent skin aging due to sunburn, to maintain organs before transplantation for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, cofactors and other nutritional components. The present sequence represents a cDNA derived from a gene encoding one of the novel human secreted proteins of the invention. Note: This sequence did not form part of the printed specification, but was obtained in electronic format directly from USPTO at segdata.uspro.gov/sequence.html?DocID=6420326B1.
Query Match
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Matches 29
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23-AUG-1997
25-AUG-1997
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25-AUG-1997
25-AUG-1997
25-AUG-1997
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                                                              Sequence 1049 BP;
                                                                                                                                                                                                                                                                                                                                                in a pharmaceutical composition used to prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. Disorders which are diagnosed or treated include autoimmune diseases e.g. rheumatoid arthritis, hyperpyoliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated human secreted protein for diagnosing, preventing, treating or ameliorating medical conditions and used as a food additive
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Duan R, Hu
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J, Florence KA, (
hi Y, Lafleur DW,
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970S-056908P-
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970S-056911P-
970S-05761P-
970S-057650P-
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KA, Olsen HS, Ebne.
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   Mismatches
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c R, Brewer LA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel 1405 isolated polypeptides, useful for diagnosis, treatment prevention of neural, immune system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal and proliferati
                                                                                                                                                                                                                                              Sequence 1108
                                                                                                                                                                                                                                                                                                         Note: The sequence data for this patent printed specification, but was obtained from WIPO at ftp.wipo.int/pub/published
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to novel genes (ABL89449-ABL90853) and proteins (ABB89040-ABB90444) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification.
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P-PSDB; ABB89648.
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29; Conser
                                                          ААСТАЛАЛАЛАЛАЛАЛАЛАЛАЛАСТССАС 1323
                                                                                                                          Conservative
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Pred. No.
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                                                                                                                                                                                                                                                  324 G;
                                                                                                                          Mismatches
                                                                                                                                                                                                                                                  271 T; 5 other;
                                                                                                                                                 DB 2
                                                                                                                                                                                                                                                                                                                                            did not form part of in electronic format
                                                                                                                                                                                                                                                                                                               _pct_sequences.
                                                                                                                                                                                    24;
                                                                                                                       0,
                                                                                                                                                                                    Length 1108;
                                                                                                                                                                                                                                                                                                                                               format directly
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                                                                                                                          Gaps
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RESULT 7
AAX22260
  18-AUG-1997;
18-AUG-1997;
18-AUG-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-JUL-1997;
22-JUL-1997;
22-JUL-1997;
         The invention relates to nucleic acid sequences (AAX22211 to AAX2282) encoding human secreted proteins (AAX01383 to AXY01454). The secreted protein gene sequences are deposited with the ATCC under deposit number ATCC 209138, 209139 or 209141. Host cells containing vectors comprising the nucleic acid sequences are used for the recombinant expression of the secreted proteins. The polynucleotide and amino acid sequences are useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. Pathological conditions can be also diagnosed by determining the amount of the new polypeptides in a sample or by the presence of mutations in the new polynucleotides. The nucleic acid sequences, or its fragments, are useful for chromosome identification and mapping; as antisense and triplex-forming therapeutics; in gene therapy, for (forensic) identification of individuals; as molecular
                                                                                                                                                                                                                                                                                                  Duan
                                                                                                                                                                                                         New nucleic acids encoding secreted human proteins - useful for treating and diagnosing diseases and ident
                                                                                                                                                                                                                                          WPI; 1999-132234/11.
P-PSDB; AAY01432.
                                                                                                                                                                                                                                                                                                                                                                       18-AUG-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX22260,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAX22260 standard;
weight markers;
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                                                                                                                                                                                              binding
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                                                                                                                                                                                                                                                                                        Greene
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                                                                                                                                                                                                                                                                                                                                                 18-AUG
                                                                                                                                                                                                                                                                                                                                                                                                                                           18-AUG-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-JUL-1997
16-JUL-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-JUL-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HOMO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rumour; chromosome mapping; forensic; haematological dise
inflammation; cell proliferation; viral infection; wound
                                                                                                                                                                                                                                                                                                                         (HUMA-)
                                                                                                                                                                                                                                                                                                                                                            18-AUG
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                                                                                                                                                                       4; Page 195; 251pp;
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                                                                                                                                                                                                                                                                                        Ferrie AM, Flore
Ni J, Rosen CA,
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                                                                                                                                                                                                                                                                                                                                                3-0055989.
3-0056359.
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3-0055946.
  identify related
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                                                                                                                                                                       English
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                                                                                                                                                                                                                                                                                                  Florence KA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      food
                                                                                                                                                                                                         d human proteins - potentially
diseases and identifying specific
  sequences
                                                                                                                                                                                                                                                                                         Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   al infection; wound healing; additive; preservative; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein
                                                                                                                                                                                                                                                                                                   Fouad
 or specific
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    therapy;
                                                                                                                                                                                                                                                                                        Young PE;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            disease;
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ARESULT 8
AAF2172/C
ID AAF217
XX AF217

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Best Local S
Matches 29
                                                                                                                                                                                                                                                                         polypeptides encoded b
treatment and diamond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               useful as immunoassay reagents (including for in vivo imaging) and therapeutically to inhibit or activate particular polypeptides. A very wide range of disorders may be treated with the polynucleotide and polypeptide sequences, e.g. autoimmune or haematological diseases, allergy, inflammation, cancer or other forms of cell proliferation, vira or other infections. The sequences may also be useful in wound healing, to modulate differentiation of embryonic stem cells, to modulate weight, appetite, behaviour etc. and as food additive or preservative. The present sequence represents a gene encoding a human secreted protein (see descriptor line for gene number and clone identification).
                         Sequences AAF21614 - AAF22031 represent DNA sequences encoding hup proteins AAB58711 - AAB59128. The DNA and protein sequences are proteins expenses and overrian cancer. Included en the invent sequences AAF22032 - AAF22040 and AAB59129 which are used in the isolation and characterisation of the DNA and protein sequences convention. The breast and overrian cancer associated DNA, protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; breast cancer; ovarian cancer; cytostatic; immunosuppressive; nootropic; neurpprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; cardiant; immune disorder; addison's disease; allergy; autoimmune haemolytic anaemia; antionumune thyroiditis; diabetes mellitus; Crohn's disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1198
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                                                                                                                                                                                                                    Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-MAR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-MAR-2001
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                                                                                                                                                                                                                 Page 563-654; 1299pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAGTAAAAAAAAAAAAAAAAACTCGAG
                                                                                                                                                                                                                                                                       and
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                                                                                                                                                                                                                                                              nast and ovarian cancer associated gene sequences and encoded by these genes, useful in the prevention, diagnosis of cancer, immune disorders, cardiovascula neurological diseases -
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENOME
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       disorder; wound healing; neurological disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ovarian cancer associated antigen gene SEQ ID 109.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   arthritis; ulcerative colitis;
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                                                                                                                                                                                                                                                                                                   cardiovascular
                                                     sequences of the
                              protein,
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                                                                                                             invention are
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antagonist

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RESULT 9
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                                                                                  AAF15566 to AAF16505 encode the human prostate cancer associated proteins, called prostate cancer antigens, gaven in AAB5363 to AAB57302. The prostate cancer antigens can have neuroprotective, cytostatic, cardioactive, immunomodulatory, muscular, vulnerary, gastrointestinal, cardioactive, antiinfective, gynaecological and antibacterial activities, and protective, gynaecological and antibacterial activities,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 neuroprotective; cytostatic; cardioactive; immunomodulatory; muscular; vulnerary; gastrointestinal; nephrotropic; antiinfective; gynaecological; antibacterial; gene therapy; neural; immune; reproductive; renal; gastrointestinal; pulmonary; cardiovascular; proliferative disorder; wound; infectious disease; ss.
                                                                                                                                                                                                                                                                                                                                                                                Prostate cancer associated gene sequences, referred to cancer antigens, useful for treatment, prevention, and
                             and can be used in gene therapy. The prostate cancer antigen polynucleotides may be used for detection of prostate cancer,
                                                                                                                                                                                                                                                                                       Claim
                                                                                                                                                                                                                                                                                                                                           disorders such as prostate cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-MAR-2000; 2000WO-US05988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-SEP-2000.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-MAR-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cerebral anoxia and epilepsy; and infectious diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rosen CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human prostate cancer antigen nucleotide sequence SEQ ID NO:83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAF15648
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ROSE/)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (HUMA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1295 AAGTAAAAAAAAAAAAAAAAAAAAAACTCGA 1322
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                                                                                                                                                                                                                                                                                    1; Page 671; 2338pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              prostate cancer; prostate cancer antigen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HUMAN GENOME
ROSEN C A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard; cDNA; 2150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ruben SM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                neuroprotective; antiviral; antiallergic; hepatotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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Pred. No.
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0.97;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              detection; diagnosis;
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diagnosis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0
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other diagnostic

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1297 GTAAAAAAAAAAAAAAAAAACTCGAG 1323

chromosome

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RESULT 10
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ID AAV427;
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  Matches
                                                      Query Match
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                                                                                                                                                         The present sequence represents Incyte clone 1, which is used in a sequencing reaction with the primer of the invention. The primer (e.g. ANV4215) is labelled with a set of at least 2 different fluorescent labels. The set comprises an energy-transfer fluorescent label with at least 1 each of a donor fluorophore and an acceptor fluorophore capable of energy transfer, and separated by a distance x, and a second similar fluorescent label in which the separation distance is y, x and y being sufficiently different for the two fluorescent labels to produce distinct fluorescent signals. Fluorescent labels are useful in multicomponent analyses, e.g. as probes for fluorescent in situ hybridisation or especially as primers for DNA sequencing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              or research purposes. The prostate cancer antigens may be used to tree disorders such as neural, immune, neural reproductive gastrointestinal, pulmonary, cardiovascular, reproductive disorders, wounds, and infectious diseases. AAF16506 to AAF16514 to AAB57303 represent sequences used in the exemplification of the preser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Set of energy-transfer fluorescent labels with donor and different separations - useful for DNA sequencing allows fewer analysing wavelengths or an increased throughput
                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; Page 15; 30pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cDNA sequence of Incyte clone
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-JAN-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (INCY-) INCYTE PHARM INC
                            Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
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l Similarity
27; Conserv
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                                                                                                                300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard;
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     Conservative
                                                                                                             BP;
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                                                                                                             88
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                            2.0%;
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                                                                                                             A; 79 C;
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                                                                                                             81 G;
                            Score 27;
Pred. No.
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Pred. No.
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     Mismatches
                                                                                                             80 T; 2 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            probe; primer; DNA sequencing; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   598 T; 2 other;
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RESULT 11
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ID ABA14083 standard;
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26-JUL-2000
26-JUL-2000
14-AUG-2000
16-SEP-2000
01-SEP-2000
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30-JUN-2000;
07-JUL-2000;
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19-MAY-2000;
07-JUN-2000;
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04-FEB-2000;
24-FEB-2000;
02-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; nootropic; neuroprotective; cytostatic; dermatological; virucide; immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary; antiparkinsonian; antisickling; antianaemic; antiarthritic; cancer; antirheumatic; hepatotropic; cerebroprotective; antiinflammatory; antiallergic; antidiabetic; antiulcer; anticonvulsant; antifungal; antiparasitic; cardiant; immune disorder; cardiovascular disorder; neurological disease; infection; nephrotropic; gene therapy; vaccine; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human nervous
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2000US-0225213

2000US-0225264

2000US-0225267

2000US-0225267

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2000US-0209467.
2000US-0214886.
2000US-0215135.
2000US-0216647.
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2000US-0218290.
2000US-0220963.
2000US-0220964.
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S-0190076.
S-0198123.
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3-0225213.
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3-0217487.
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   2000US-0240960

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                                                                                                                                                                    RESULT 12
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                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
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17-NOV-2000;
17-NOV-2000;
17-NOV-2000;
Cardiovascular system antigen; human; mouse; rabbit; goat; horse; cat;
                                                                                                                                                                                                                                                                                                                                                                                       Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleic acids encoding 3224 human nervous system antigen polypeptides, useful for preventing, diagnosing and/or treating nervous system cancers and metastases -
                               Human cardiovascular system antigen cDNA polynucleotide SEQ ID No
                                                                 17-DEC-2001
                                                                                                  AAS35580
                                                                                                                                   AAS35580 standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1; SEQ ID NO 3090; 1701pp + Sequence Listing; English
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2000US-0249265.
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2000US-0249299.
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2000US-0251160.
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2000US-0251868.
2000US-0251868.
2000US-0251869.
2000US-0251869.
2000US-0251869.
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2000US-0251989.
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Pred. No. 2.3;
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16-SEP-2000

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01-SEP-2000
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16-MAR-2000;
17-MAR-2000;
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                                                                                 2000US-0231243.
2000US-0231244.
2000US-0231413.
2000US-0231414.
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2000US-0231242.
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2000US-0225759
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2000US-0225447
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2000US-0209467
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2000US-0190076
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14-SEP-2000; 14-SEP-2000;

2000US-0232401.
2000US-0233063.
2000US-0233065.
2000US-0233065.
2000US-0234274.
2000US-0234997.
2000US-0235484.
2000US-02358834.
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RESULT 13
AAA01696
ID AAA01
XX AAA01
XX AAA01
XX AAA01
XX I9-MA
DT 19-MA
DT Human
XX Human
XX Probe
KW Probe
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CC cardiovascular system antigen polypeptides of the invention.

CC cardiovascular system antigen polypeptides of the invention.

CC cardiovascular system antigens and their associated polynucleotides are

CC useful in the diagnosis, treatment and prevention of various types of

CC chickens or sheep. A pathological condition can be determined by

CC chickens or sheep. A pathological condition can be determined by

CC detecting the presence or absence of a mutation in a cardiovascular

CC system antigen polynucleotide. The treatable disorders include autoimmune

CC diseases such as rheumatoid arthritis, hyperproliferative disorders such

CC cardiac arrest, cerebrovascular disorders such as cerebral ischaemia,

CC nervous system disorders such as Alzheimer's disease, infections caused

CC infection, endocrine disorders such as premature labour and infertility,

CC infection, endocrine disorders such as premature labour and infertility,

CC as a losteria, viruses and fungi, ocular disorders such as corneal

CC gastrointestinal disorders such as premature labour and infertility,

CC as glomerulonephritis and respiratory disorders such as asthma and

CC pleurisy. The polypeptides can also be used to aid wound healing, to

CC prevent skin aging due to sunburn, to maintain organs before

CC use fern viro introduced and for this patent did not form part of the printed

CC as fern viro introduced and occurrenced the printed of the printed of
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08-DEC-2000;
08-DEC-2000;
11-DEC-2000;
11-DEC-2000;
                                                                                  Human; colon cancer; tumour; diagnosis; gene expression product; probe; detection; cancerous state; metastasis; identification; breast cancer; oestrogen receptor-positive breast cancer; therapy; oestrogen receptor-negative breast cancer; lung cancer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New cardiovascular system related polynucleotides and polypeptides useful for diagnosing, treating and/or preventing disorders of the cardiovascular system -
                                           Homo sapiens
                                                                                                                                                                                                  Human
                                                                                                                                                                                                                                              19-MAY-2000
                                                                                                                                                                                                                                                                                         AAA01696;
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2000US-0251479.
2000US-0251856.
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2000US-0251990.
2000US-0254097.
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Pred. No.
                                                                                                                                                                                              polynucleotide sequence SEQ ID NO:1687
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03-OC

2000US-0239935 2000US-0239937

08-NOV-2000;
17-NOV-2000;
17-NO

2000US-0249216 2000US-0249217 2000US-0249218 2000US-0249244 2000US-0249245 2000US-0249265 2000US-0249265 2000US-0249267 2000US-0249297 2000US-0249297 2000US-0249297 2000US-0249290 2000US-0249290 2000US-0249290 2000US-0249300 2000US-0249300

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RESULT 14
AAT63042
ID AAT63
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA00010 to AAA02716 represent polynucleotides isolated from cDNA libraries constructed from human colon cancer cell lines. The present invention also describes a method of detecting differentially expressed genes correlated with a cancerous state of a mammalian cell, comprising detecting at least one differentially expressed gene product in a test sample derived from a cell suspected of being cancerous, where detection of the differentially expressed gene product is correlated with a cancerous state of the cell from which the test sample was derived.
                                                                                                                                                                                                      Cellulase;
                                                                                                               Aspergillus niger strain N400 (CBS120.49)
                                                                                                                                                                                                                                                            Aspergillus niger cellulase cDNA
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Lamson G, Drmanac R,
Leshkowitz D, Kita D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Page 613; 1097pp; English.
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15-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1297 GTAAAAAAAAAAAAAAAAACTCGAG 1323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    l Similarity
27; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GTAAAAAAAAAAAAAAAAAAACTCGAG
                                                                                                                                                                                                      protein detection; enzyme detection; library screening;
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                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Escobedo
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98US-0105234.
98US-0105877.
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98US-0085537.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99WO-US10602
                           Location/Qualifiers 57..776
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2.0%;
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Randazzo F, Kennedy GC, Pot D, Kass
Crkvenjakov R, Dickson M, Drmanac S,
Garcia V, Jones LW, Stache-Crain B;
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                                                                                                                                                                                                                                                                                                                                                                                                                                          ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kassam
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A cDNA clone (AAT63042), deposited as CBS 589.95, codes for a cellulase (AAW14595) of Aspergillus niger N400 (CBS120.49). It was isolated using a method for identifying a DNA fragment encoding a protein of interest. The method involves the direct screening of a cDNA library prepd. in bacteria (e.g. E. coli) transformed with DNA from a eukaryotic organism (e.g. A. niger) that produces the protein. Screening for cellulase-producing clones can be performed on plates containing CM-cellulase and Congo Red. The method was utilised in the identification of cDNA clones (AAT63042-46) coding for A. niger cellulase, xylanase and arabinoxylan degrading enzymes
                                                                                                                                                                                                                                                                                                                                                                                                                   Cellulase; carboxymethylcellulase; endoglucanase; bet cellulolytic enzyme; wine; beer; juice clarification; textile; feedstuff; ds.
                            13-OCT-1995;
                                                                                14-OCT-1996;
                                                                                                                                          17-APR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cellulase cDNA clone 12.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Identifying DNA fragments encoding proteins, e.g. for new enzyme discovery - by direct screening of a cDNA library in bacteria transformed with DNA from eukaryotic organism producing the prot
                                                                                                                                                                                              WO9713862-A1
                                                                                                                                                                                                                                                                                                                                                            Aspergillus niger strain N400 (CBS120.49)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 5; Page 13-14; 30pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1297
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27; Conserv
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                               95EP-0202776
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          95EP-0202777
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                                                                                                                                                                                                                                                                              Location/Qualifiers 57..776
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0; Mismatches
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Best Local S
Matches 27
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                                                                                                                                                  22-DEC-1998;
28-JAN-1998;
28-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Aspergillus cellulolytic enzyme - degrades carboxymethyl cellulose, endoglucan and beta-glucan, used e.g. in production of wine, animal feeds etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cDNA clones 12 (AAT60426) and 64 (AAT60427) are respectively of as CBS 589.95 and CBS 662.95 and code for enzymes (AAW15562 and AAW15563) that have carboxymethylcellulase, endoglucanase and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 2; Page 15-16; 28pp; English.
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                                                                                                                                                                                                                                                                                                          Human; lung tumour protein; therapy; diagnosis; lung cancer; vaccine; immunotherapy; detection; inhibition; ss.
                                                                                                                                                                                                                                                                                                                                              Human lung tumour protein SAL-3 5' cDNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1017 BP; 258 A; 267 C; 265 G; 227 T; 0 other;
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                        WPI; 1999-479187/40
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                                                                                                                                        18-MAR-1998;
                                                                                                                                                                                                                                                                                                        immunotherapy;
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llarity 100.0%;
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98US-0122191.
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                                                                                                                                                                                                                                                                                                                                                    Novel lung |
detecting, |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     02-APR-1999;
09-AUG-1999;
30-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention describes lung tumour specific polynucleotides and tumour antigens. AAZ07144 to AAZ07246 and AAZ08315 to AAZ08325 represent specifically claimed polynucleotides, and AAY29486 to AAY29571 represent amino acid sequences from the present invention. The lung tumour specific polynucleotides and polypeptides can be used in pharmaceutical compositions and vaccines to inhibit the development of lung cancer. They can also be used to detect lung cancer in a patient probes and antibodies derived from the lung tumour sequences are useful
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1061 BP;
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                                                                         The present sequence is given in a specification relating to compounds for therapy and diagnosis of lung cancer. Polypeptides comprising at least an immunogenic part of a lung tumour protein are disclosed. The polypeptides are useful for inhibiting the development of cancer, especially lung cancer. Samples of T cells expressing the polypeptides may be used to inhibit the development of cancer. The polypeptides are also useful for detecting and monitoring the progression of cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAC79143 standard; cDNA; 1061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human lung tumour-specific cDNA #96.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAC79143;
                                                                                                                                                                                                                                                                                                                                                                                                                                     P-PSDB; AAB44458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            03-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-MAR-2000; 2000WO-US08560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200060077-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               in detection
                                                                                                                                                                                                                                                                                                       Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (CORI-) CORIXA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1297 GTAAAAAAAAAAAAAAAAAAACTCGAG 1323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tumour specific polynucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tumour protein; lung cancer; cytostatic; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000-638466/61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTAAAAAAAAAAAAAAAAACTCGAG 1061
                                                                                                                                                                                                                                                                                                 Page 148; 243pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lodes MJ,
                                                                                                                                                                                                                                                                                                                                                    tumor polypeptides and polynucleotides, useful monitoring or treating cancer, especially lung
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          of lung cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0518809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99US-0285323.
99US-0370838.
99US-0476235.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       219 A; 294 C; 350 G; 198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2.0%; pre
100.0%; Pre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mohamath
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 27;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ₽P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ₽,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Secrist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      for inhibiting the development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           86
                                                                                                                                                                                                                                                                                                                                                            cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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Sequence

1061 BP;

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A. 294

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198 T; 0 other

cancer.

Length 1061;

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RESULT 18
AAD23218
ID AAD23
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AAD23
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AC AAD23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-MAR-2000;
05-JUN-2000;
18-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; lung tumour protein;
antisense-therapy; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human lung tumour-specific
                                         useful for stimulating an immune response, and for treating cancer. The lung tumour specific oligonucleotide is useful in gene therapy and for diagnosis, detection and treatment of lung cancer. The present sequence is a cDNA encoding human lung tumour-specific protein.
                                                                                                                                          The invention relates to isolated lung tumour-specific proteins and their corresponding cDNA molecules. Lung tumour-specific proteins and their antigen-presenting cells are useful for stimulating and/or expanding T cells specific for a tumour protein, and for inhibiting the development of cancer. The invention also relates to a composition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAD23218 standard;
  Sequence 1061
                                                                                                                                                                                                                                                                                      Example 4; Page 201-202; 378pp; English.
                                                                                                                                                                                                                                                                                                                                New human lung-specific polynucleotides and polypeptides for the diagnosis and treatment of disease e.g. lung cancer - \ensuremath{\mathsf{c}}
                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-639201/73.
P-PSDB; AAE13799.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Henderson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-SEP-2000;
01-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-MAR-2001; 2001WO-US09991
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-FEB-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (CORI-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1297 GTAAAAAAAAAAAAAAAAAAAACTCGAG 1323
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORIXA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTAAAAAAAAAAAAAAAAACTCGAG 1061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lodes
RA, F
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2000US-0640878.
2000US-234517P.
2000US-0704512.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000US-0738973
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  BP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          s MJ,
Fling
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /product= "Human SAL-3 protein"
/note= "CDS does not include start codon"
    219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mohamath R, SP, Algate
    ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                b
       294
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     immunostimulant; cytostatic; gene therapy;
immune response; lung cancer; SAL-3; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 27;
Pred. No.
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       350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Secrist H, PA, Elliot
    ç.
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2.1;
       198
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       T; 0
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M, Mannion
       other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indirias
J, Kalos
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Query Match 2.0%; Sometime Best Local Similarity 100.0%; Matches 27; Conservative 0;

Score 27; DB; Pred. No. 2.1

DB 23; 2.1;

Length 1061;

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Indels

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Gaps

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Sequence 1249 BP; 426

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160

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223 ç.

396 T;

44 other

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RESULT 19
RAZI15856
ID AZZ15856
ID AZZ15856
AZ AZZ15
XX Human
XX Human
XX Human
XX Homo
XX Homo
XX Homo
XX AZZ15
XX AZZ1
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                                                                    The present invention describes a library of human polynucleotides comprising the sequences given in AAZ12532 to AAZ17779. Also described is cancerous state of a mammalian cell, comprising detecting at least one cancerous state of a mammalian cell, comprising detecting at least one conserved of being cancerous, where the gene product is encoded by one confirmed the 5248 polynucleotide sequences given in AAZ12532 to AAZ1779. The collection of polynucleotide sequences given in AAZ12532 to AAZ1779. The collection of polynopse, e.g. detection of expression levels, mapping, tissue typing or profiling, forensics, genetic analysis and can be used for raising antibodies for experimental, diagnostic and construct therapeutic purposes. The polynucleotides may also be used to construct carrays for diagnostics (which may be used to detection of an encoded protein); and to detect differences in expression levels between two cells (e.g. to identify abnormal or diseased tissue in a human, to cancer). The polynucleotides of the invention are especially used in the diagnosis, prognosis and management of coloractal cancer, breast cancer, cand lung cancer. The polynucleotides can also be used to screen for complete analoques and antagonists
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Crkvenjakov R, Dickson M, Drmanac K, Lammon, MA;
Escobedo J, Garcia PD, Garcia V, Gisse K, Innis MA;
Jones WI, Kassam A, Kennedy GC, Kita D, Labat I;
Lamson G, Leshkowitz D, Pot D, Randazzo F, Reinhard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24-FEB-1998;
31-MAR-1998;
03-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ15856;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; gene; gene expression product; diagnosis; therapy; probe; detection; mapping; tissue typing; profiling; forensic; cancer; genetic analysis; colorectal cancer; breast cancer; lung cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human gene expression product cDNA sequence SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel human genes and their differentially expressed in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1999-494092/41.
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(HYSE-)
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28-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-JAN-1999; ·
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Page 1593;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1297
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                                                              analogues and
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98US-0075954.
98US-0080114.
98US-0080515.
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98US-0072910
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                                                                 antagonists.
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                                                                                           The invention relates to isolated polynucleotide (I) and CC polymeptide (II) sequences. (I) is useful as hybridisation probes, complymerase chain reaction (PCR) primers, oligomers, and for chromosome complyments are also used in diagnostics as expressed sequence tags complymucleotides are also used in diagnostics as expressed sequence tags complymucleotides are also used in diagnostics as expressed sequence tags complyments activity of (II) or to treat disease states involving complyments are useful in generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical complyments of sites expressing (II). (I) and (II) are useful for treating complyments of sites expressing (II). (I) and (II) are useful for treating complyments of sites expressing (II). (I) and (II) are useful for treating complyments and as a food supplements of some polyments because the expression or biological activity. The polymentics and polyments because the polyments of the expression or biological activity composible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and compositic coding sequences of the invention.

CC and to produce other types of data and products dependent on DNA and content the sequence of the invention.

CC and to expression, but was obtained in electronic format directly from WIPO care first who invention appear in the printed care for this patent did not appear in the printed care for this patent did not appear in the printed care for the sequences of the invention.
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Best Local Similarity
Matches 27; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutation responsible for genetic disorders or other traits and to assess
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 1; SEQ ID No 1098; 103pp; English.
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23-AUG-2000; 2000US-0649167.
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                                                                 ftp.wipo.int/pub/published_pct_sequences.
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DB, ABG01107.
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Pred. No.
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Query Match

Sequence 1414 BP;

362 A; 343 C; 358 G;

351 T; 0

Query Match Best Local Similarity Matches 27; Conserv

2.0%; Score 27; ilarity 100.0%; Pred. No. Conservative 0; Mismatc

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Gaps

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1427

BP;

255 A; 472 C;

440 G;

253 2;

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Length 1427; other;

Score 27;

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Length 1414; other

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RESULT 21
ABL90278
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                            The invention relates to novel genes (ABL89449-ABL90853) and proteins (C (ABB89040-ABB90444) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant) agonists are useful continuously treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone compared to the municipal continuously to anaemia, autoimmune throiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis, (c) cardiovascular disorders such as myocardial ischaemias; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral annoxia and ceplepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.

CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly crom wipo at ftp.wipo.int/pub/published_pct_sequences.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparastic; cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder; neurological disease; infection; human; secreted protein; gene; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                Novel 1405 isolated polypeptides, useful for diagnosis, treatment an prevention of neural, immune system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal and proliferative
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                                                                                                                                                                                                                                                                                                                                                                                                                     disorders
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RESULT 22
AAC77911
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                                                    antidiabetic; antisthmatic; antirheumatic; antiarthritic;

Cantiinflammatory; antithyroid; antiallergic, antibacterial; antiviral;

Cdermatological; neuroprotective; cardiant; thrombolytic; coagulant;

Cc dermatological; neuroprotective; cardiant; thrombolytic; coagulant;

Cc nootropic; vasotropic; antipsoriatic and antianglogenic. The

complymucleotides and polypeptides can be used for preventing, treating or

ameliorating medical conditions and diagnosing pathological conditions.

Cc polymucleotides, polypeptides, antibodies, agonists and antagonists from

cc polymucleotides, polypeptides, antibodies, agonists and antagonists from

cc rinhibiting the proliferation, differentiation or mobilisation of

cc immune cells, to treat disorders of haematopoietic cells, autoimmune

cd disorders, allergic reactions, graft versus host disease and organ

cc rejection, modulate haemostatic or thrombolytic activity, modulate

inflammation, cancers, cardiovascular disorders, neurological disease and

cc inflammation, cancers, cardiovascular disorders, neurological disease and

cc agonists and antagonists may be also be used in drug screens. AAC78449 to

AAC78457 and AAB4240 represent sequences used in the exemplification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  diagnosis; cytostatic; proliferative; vulnerary; immunomodulator; antidiabetic; antiasthmatic; antirheumatic; antiarthritic; antiviral; antiinflammatory; antithyroid; antiallergic; antibacterial; cardiant; dermatological; neuroprotective; thrombolytic; coagulant; nootropic; vasotropic; antipsoriatic; antianglogenic; gene therapy; inflammation; immune disorder; haematopoietic cell disorder; autoimmune disorder; haematopoietic cell disorder; autoimmune disorder; antipsoriatic; cardiovascular disorder; infection; neurological disease; drug screening; ss.
                                                                                                                                                                                                                                                                                                                                                                                               AAC77607 to AAC78448 encode the human cancer associated proteins given in AAB43398 to AAB44239. The proteins can have activities based on the tissues and cells the genes are expressed in Example of activities include: cytostatic; proliferative; vulnerary; immunomodulator;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel isolated nucleic useful for treating or
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P-PSDB; AAB43702.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               useful for treating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human cancer associated gene sequence SEQ ID NO:305
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               acids comprising sequences encoding peptides diagnosing e.g. cancer -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1323
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cancer;
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Query Match

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Score 27;

Length 1553;

346 G;

403 멂 21; Η,

2 other;

Sequence 1553 BP; 451 A; 351 C;

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RESULT 23
AAC93515
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           CC vasotropic; cerebroprotective; notropic; neuroprotective; antibacterial; CC virucide; fungicide; opthalmalogical; and vulnerary. The secreted proteins, polynucleotides, antagonists and agonists may be useful in CC treating, preventing and/or diagnosing diseases and disorders such as CC autoimmune diseases e.g. rheumatoid arthitis, hyperproliferative CC disorders e.g. neoplasms of the breast or liver; cardiovascular disorders CC e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia, CC angiogenesis, nervous system disorders e.g. cerebral ischaemia, CC angiogenesis, nervous system disorders e.g. Alzheimer's disease, CC infections caused by bacteria, viruses and fungi and ocular disorders c.g. corneal infection. The polypeptides can also be used to aid wound CC healing and epithelial cell proliferation, to prevent skin aging due to culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used additive or preservative to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity Matches 27; Conserv
                                                                                                                                                                                                                                                                               proteins have activities dependent on the tissues and cells in which they are expressed. Examples of their activities include immunosuppressive; antiarthritic; antirheumatic; antiproliferative; cytostatic; cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human; secreted protein; immunosuppressive; antiarthritic; antirheumatic; antiproliferative; cyrostatic; cardiant; vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial; viruoide; fungicide; opthalmalogical; vulnerary; autoimmune disease; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                          Polynucleotide sequences AAC93479 - AAC93527 represent cDNA encoding human secreted proteins AAB51876 - AAB51875. Sequences AAB51876 - AAB51927 represent alternative polypeptides encoded by the genes, and amino acid sequences with which they share homology. The genes and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        food additives or preservatives
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       P-PSDB; AAB51863
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20-JAN-2000; 2000US-0176926.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human secreted protein gene 37 SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAC93515;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAC93515 standard; cDNA; 2509
                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Page 454-455; 516pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New nucleic acid molecules encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-APR-2000; 2000WO-US09066
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hyperproliferative disorders; cancer; cardiovascular disorder; cardiac arrest; cerebrovascular disorder; nervous system disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Alzheimer's disease; ocular disorder; wound healing; skin aging;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (HUMA-) HUMAN GENOME SCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1527 GTAAAAAAAAAAAAAAAAACTCGAG 1553
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
 storage capabilities,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Komatsoulis G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ameliorating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ВP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                49 human secreted proteins for 
ing medical conditions and used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NO:47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  used
 protein
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        The polynucleotide sequences given in AAC59966 to AAC60015 encode the human secreted proteins given in AAB3473 to AAB34822. AAB34823 to AAB34822 represent human secreted polypeptide sequences and proteins homologous to them, which are given in the exemplification of the present invention. Human secreted proteins have activities based on the tissues and cells the genes are expressed in. Examples of activities include: cytostatic; immunosuppressive; nootropic; neuroprotective; antivital; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiucer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; and cardiant. The polynucleotides and polypeptides are useful for preventing, treating or ameliorating a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities. The polynucleotides are useful for chromosome identification. They are also useful as probes for useful for chromosome identification. They are also useful as probes for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                         Fifty nucleic acid molecules encoding human secreted proteins, useful in the prevention, treatment and diagnosis of cancer, immune disorder cardiovascular disorders and neurological diseases -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antidiabetic; antiinflammatory; antiuicer; vulnerary; anticonvulsant;
antibacterial; antifungal; antiparasitic; cardiant; gene therapy;
cancer; immune disorder; cardiovascular disorder; wound healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              carbohydrate, vitamins, minerals, cofactors and other nutritional components. Oligonucleotides AAC93470 - AAC93478 and peptide AAB5 used in the isolation and characterisation of the proteins and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-MAR-1999;
17-DEC-1999;
                                                                                                                                                                                                                                                                                            Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             neurological disease; infectious
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human, secreted protein; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (HUMA-) HUMAN GENOME
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)B; AAB34816.
                                                                                                                                                                                                                                                                                          1; Page 371; 425pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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99US-0172413.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2.0%;
related to the female reproductive system
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Komatsoulis
                                                                                                                                                                                                                                                                                          English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           agnosis; cytostatic; immunosuppressive;
antiviral; antiallergic; hepatotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             identification;
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                                                                                                                                                                                                                                                                                                                                            disorders
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Best Local
The invention relates to novel genes (ABL01566-ABL01594) and proteins (ABB57394-ABB57456) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant) agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune habout anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      therapy of breast and ovarian cancer. Nucleic acids, protein, antibodies, agonists and antagonists from the present invention are useful in the diagnosis, treatment and prevention of cancer, immune disorders, cardiovascular disorders, wound healing, neurological diseases and infectious disease. AAC59957 to AAC59965 and AAB34772 represents sequence used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulne antiparkinsonian; antisickling; antianaemic; antiantinflammatory; antixheumatic; hepatotropic; cerebroprotective; antiinflammatory; antiallergic; antidiabetic; antiulcer; anticonvulsant; antifungal; antiparasitic; cardiant; immune disorder; cardiovascular disorder;
                                                                                                                                                                                                                                                     An isolated nucleic acid molecule encoding a human secreted protein (SP) is useful in preventing, treating or ameliorating a disorder e Alzheimer's disease and cancers -
                                                                                                                                                                                                                                                                                                                                                                                                                                           02-MAY-2000;
16-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 2528 BP; 772 A; 428 C; 545 G; 781
                                                                                                                                                                                                                         Claim
                                                                                                                                                                                                                                                                                                                                                                          Komatsoulis G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            26-APR-2001; 2001WO-US13318
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-NOV-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              particularly breast and/or ovary cancer. They are also useful in the gene
                                                                                                                                                                                                                                                                                                                                                                                                           (HUMA-) HUMAN
                                                                                                                                                                                                                                                                                                                           2002-121886/16.
DB; ABB57400.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nootropic; neuroprotective; cytostatic; dermatological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
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                                                                                                                                                                                                                     Page 437-438; 496pp; English.
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2000US-212142P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disease; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry
                                                                                                                                                                                                                                                                                                                                                                                                           GENOME SCI INC
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Pred. No.
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RESULT 26
AAX22254
ID AAX22
XX AAX22
XX IB-MA
XX IB-MA
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XX Human
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Best Local
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22-JUL-1997;
22-JUL-1997;
18-AUG-1997;
18-AUG-1997;
18-AUG-1997;
18-AUG-1997;
18-AUG-1997;
                                                                                                                                                                                                   Greene
Yu G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; secreted protein; gene therapy; protein therapy; cancer; weight; tumour; chromosome mapping; forensic; haematological disease; allergy; inflammation; cell proliferation; viral infection; wound healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.
                                                               New nucleic acids encoding secreted human proteins - potentially useful for treating and diagnosing diseases and identifying spec
                                                                                                                                 WPI; 1999-132234/11.
P-PSDB; AAY01426.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2785 BP; 878 A; 511 C; 468 G; 914 T; 14 other;
  Claim 4; Page 191-192; 251pp; English
                                           binding agents
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                                                                                                                                                                                                                                                                                       (HUMA-)
                                                                                                                                                                                                                                                                                                                                                                                  18-AUG
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                                                                                                                                                                                                               7 P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                            GENOME SCI INC
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970S-0053442
970S-0055683
970S-0055724
970S-0055726
970S-0055726
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97US-0052871.
97US-0052872.
97US-0052873.
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97US-0055989.
97US-0056359.
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97US-0052661
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                                                                                                                                                                                                                        Ferrie AM, Florence KA,
Ni J, Rosen CA, Ruben
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2.0%;
100.0%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                                                                                          Ruben SM,
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                                                                                                                                                                                                                        Fouad J;
SM, Young
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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                                                                    identifying specific
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RESULT 27
AAZO7205
ID AAZO77205
AC AAZO7
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XX Humar
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XX Humar
XX Homo
DS Homo
DS Homo
DS Homo
PN W0993
XX 26-JI
PR 22-DE
PR 22-JI
PR 28-JI
PR 28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to nucleic acid sequences (AAX22211 to AAX22282)
CC encoding human secreted proteins (AAY01383 to AAY01454). The secreted protein gene sequences are deposited with the ATCC under deposit number CC ATCC 209138, 209139 or 209141. Host cells containing vectors comprising the nucleic acid sequences are used for the recombinant expression of CC the secreted proteins. The polynucleotide and amino acid sequences are useful for preventing, treating or ameliorating medical conditions e.g. CC by protein or gene therapy. Pathological conditions can be also diagnosed by determining the amount of the new polynucleotides. The nucleic acid conditions can be also diagnosed by determining the amount of the new polynucleotides. The nucleic acid conditions in the new polynucleotides. The nucleic acid conditions can and mapping; as antisense and triplex-forming therapeutics; in gene conditions can be also diagnosed by determining the amount of individuals; as molecular conditions can deposite and triplex-forming therapeutics; in gene conditions can deposite and triplex-forming therapeutics; in gene conditions can deposite and triplex forming therapeutics; in gene considered the condition of oligomers and to raise anti-DNA antibodies. Antibodies are useful as immunoassay reagents (including for in vivo imaging) and conditions can be considered and polyneptide sequences, e.g. autoimmune or haematological diseases, considered and conditions of cell proliferation, viral conditions of cell proliferation of cancer or other forms of cell proliferation. The sequences may also be useful in wound healing, conditions of cell proliferation of the conditions of the condition of cell proliferation.
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Matches
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                                                                                                                                                                                                                    18-MAR-1998;
18-MAR-1998;
23-JUL-1998;
23-JUL-1998;
WPI; 1999-479187/40
P-PSDB; AAY29522.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-AUG-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human lung tumour protein LT86-1 cDNA sequence
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                                                                                          Frudakis TN, Lodes MJ,
                                                                                                                                                                                                                                                                                                                                                 28-JAN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                           22-DEC-1998;
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                                                                                                                                                             (CORI-) CORIXA
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26; Conserv
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py; detection; inhibition; ss.
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98US-0122191.
98US-0122192.
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98US-0015022.
98US-0015029.
98US-0040828.
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                                                                                                   Mohamath
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Pred. No.
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                                                                                                   Reed
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80
                                                                                                   SG;
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RESULT TO SO AND THE LEFT TO SO 
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Best Local S
Matches 26
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of lung
                  The present sequence is given in a specification relating to compounds for therapy and diagnosis of lung cancer. Polypeptides comprising at least an immunogenic part of a lung tumour protein are disclosed. The polypeptides are useful for inhibiting the development of cancer, especially lung cancer. Samples of T cells expressing the polypeptides may be used to inhibit the development of cancer. The polypeptides are also useful for detecting and monitoring the progression of cancer, especially lung cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention describes lung tumour specific polynucleotides and tumour antigens. AAZ07144 to AAZ07264 and AAZ08315 to AAZ08325 represent specifically claimed polynucleotides, and AAY29486 to AAY29571 represent amino acid sequences from the present invention. The lung tumour specific polynucleotides and polypeptides can be used in pharmaceutical compositions and vaccines to inhibit the development of lung cancer. They can also be used to detect lung cancer in a patient. Probes and antibodies derived from the lung tumour sequences are useful
                                                                                                                                                                                                                                                                                                                              Novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-DEC-1999;
03-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lung tumour protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human lung
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                                                                                                                                                                                                                                                   Example 2; Page 90;
                                                                                                                                                                                                                                                                                                       detecting,
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Reed SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-AUG-1999;
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DB; AAB44407.
                                                                                                                                                                                                                                                                                                                            lung
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                                                                                                                                                                                                                                                                                                    monitoring or treating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; 99US-0285323.
; 99US-0370838.
; 99US-0476235.
; 2000US-0518809.
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Best Local S
Matches 26
                     their corresponding cDNA molecules. Lung tumour-specific proteins and their antigen-presenting cells are useful for stimulating and/or expanding T cells specific for a tumour protein, and for inhibiting the development of cancer. The invention also relates to a composition useful for stimulating an immune response, and for treating cancer. The lung tumour specific oligonucleotide is useful in gene therapy and for diagnosis, detection and treatment of lung cancer. The present sequence is a cDNA encoding human lung tumour-specific protein.
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05-JUN-2000; 2000US-0588937

18-AUG-2000; 2000US-0640878

22-SEP-2000; 2000US-034517P

01-NOV-2000; 2000US-0704512
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    Sequence 317
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                                                                                                                                                                                                                                                                                                   diagnosis
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    111 A;
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SP, Algate
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Pred. No.
    78 G;
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    73
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J, Kalos
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Query Match

Best Local Similarity

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                                                                                                                                        The invention relates to the isolation of genes AAC81710-C81758 encoding CC 49 human secreted proteins by linking to the genes can be used to Generate fusion proteins by linking to the gene for the human CC immunoglobulin G Fc portion (SEQIDI) for increasing the stability of the fusion protein as compared to the human protein only. The genes and CC proteins are useful for preventing, ameliorating or treating medical CC conditions, e.g. by protein or gene therapy. The genes are isolated CC from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast CC and ovarian cancer, and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's C disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial schaemias; (d)
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                  Query Match
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                                                                                               wound healing;
epilepsy; and (;
and parasitic ii
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                                                                 Sequence 352
                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Page 444; 521pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                    used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New nucleic acid molecules encoding 49 human secreted proteins for diagnosing, preventing, treating or ameliorating medical conditions and
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20-JAN-2000; 2000US-0176929.
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ROSEN C A.
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100.0%; FI
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                                                                   A; 89 C; 123 G; 59
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                     Score 26; Pred. No
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                   5.6;
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                                                                                                                                  cerebral anoxia and
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Matches

26;

Conservative

Mismatches

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Indels

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Gaps

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385 BP;

121

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108 Ç

52

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103

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RESULT 31
AAC95544
ID AAC95544
ID AAC95544
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ID AAC95XX
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                                                                                                           arthritis and ulcerative colitis; cardiovascular disorders such as myocardial ischaemias; wound healing; neurological diseases such as cerebral anoxia and epilepsy; and infectious diseases such as viral, bacterial, fungal and parasitic infections may also be treated using the proteins and polynucleotides of the invention. Sequences AAC95512 - AAC95520 and AAB52011 are used in the isolation and characterisation of
                                                                                                                                                                                                                                                                                                                          The secreted proteins, polypeptides, antagonists and agonists may be useful in treating, preventing and/or diagnosing diseases and disorders such as cancer, particularly breast and ovarian cancer, and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital. Immune disorders such as Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Polynucleotide sequences AAC95521 - AAC95570 represent cDNA encoding 50 human secreted proteins AAB52012 - AAB52161. Sequences AAB52062 - AAB52103 represent alternative polypeptides encoded by the genes, and amino acid sequences with which they share homology. The genes and proteins have activities dependent on the tissues and cells in which they are expressed. Examples of their activities include cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immunosuppressive; nootropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic; and cardiant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fifty nucleic acid molecules encoding human secreted proteins, useful in the prevention, treatment and diagnosis of cancer, immune disorder cardiovascular disorders and neurological diseases -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-APR-1999; 99US-0128703.
20-JAN-2000; 2000US-0176068.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-611865/58
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human secreted protein gene 24 SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cardiovascular disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     06-APR-2000; 2000WO-US08983
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (HUMA-) HUMAN GENOME SCI INC (ROSE/) ROSEN C A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 429; 505pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TAAAAAAAAAAAAAAAAAACTCGAG
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                                                                             polynucleotides
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                                                                                 of the
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                                                                                     invention.
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RESULT 32
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Best Local Similarity
Matches 26; Conserv
                                                   Matches
                                                                                                                   to raise antibodies suitable for use in diagnosis or monitoring the progression of prostate cancer. HPA16 cDNA was isolated from a human prostate adenocarcinoma cell line LnCap.fgc (ATCC CRL-1740) cell cDNA library by expression screening with human prostatitis sera. DNA sequences (see AAT84927-52) for 17 HPA proteins (see AAW23312-23 and AAW27303-07) are provided and can be used to produce recombinant HPA polypeptides in host cells (particularly E. coli, yeast and mammalian cell lines) and to design primers or probes for use in claimed methods of detecting prostate cancer. (Updated on 25-MAR-2003 to correct PR field.)
                                                                                                                                                                                                                                                            This sequence comprises a 3' portion of HPA16 cDNA; another isolated clone (see AAT84927) of HPA16 cDNA codes for human prostate protein HPA16 (see AAW3312), an immunogenic portion of which can be used in a claimed pharmaceutical composition for the treatment of prostate cancer, or prostate cancer, in a vaccine for treatment of prostate cancer, or
                                                                                               Sequence 403 BP; 135
                                                                                                                                                                                                                                                                                                                                                                                     Immunogenic portions of prostate proteins - useful to develop products to detect, monitor, treat or inhibit development of
                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 1997-470816/43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-MAR-1996;
10-APR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Prostate cancer; vaccine; human; H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-MAR-2003
27-APR-1998
                                                                                                                                                                                                                                                                                                                                                                         prostate cancer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-SEP-1997.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human prostate protein HPA16 3' cDNA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAT84928 standard; cDNA; 403
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                1298 TAAAAAAAAAAAAAAAAAAACTCGAG 1323
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                                                                                                                                                                                                                                                                                                                                              28; Page 46; 84pp;
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                                                                 Similarity
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                                                   Conservative
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(first entry)
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96US-0633840
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      immunotherapy; therapy; immunodiagnosis; diagnosis;
                                                 100.0%; E
                                                                                                      A; 87 C;
                                                                            2.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Twardzik
                                                                                                                                                                                                                                                                                                                                            English.
                                                              Score 26;
Pred. No.
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                                                                                                      81 G;
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 26;
                                                                                                                                                                                                       Plant; transcription factor; gene expression; eucalyptus; pine; acaci. poplar; sweetgum; teak; mahogany; bZIP; G-box binding factor; basic helix-loop-helix zipper; homeotic; homeodomain; homeobox; MADS; homeodomain; zipper; LIM domain; AP2; EREBs; zinc finger domain;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 403 BP; 135 A; 87 C; 81 G; 100 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence encodes a polypeptide obtained from prostate tumour cells. The polypeptide comprises an immunogenic portion of a prostate protein. The polypeptides and DNA obtained from prostate a prostate protein. The polypeptides and ENA obtained from protein, can tumour cells, as well as antibodies raised against the protein, can
                                                                                      Pinus radiata.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 28; Page 54; 106pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated prostate polypeptides useful for the treatment, diagnosis and monitoring of prostate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-277272/23.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23-JUN-1998;
07-OCT-1997;
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                                                                                                                                                                         type 2
                                                                                                                                                                                                                                                                                                                                                                                                                       Pinus radiata transcription factor DNA sequence #664.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAC57303
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   prostate cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1298 ТААААААААААААААААААСТСGAG 1323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             encoding a prostate tumour cell polypeptide.
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WO200053724-A2

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ID AAK888
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KW Human;
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Matches 26
31-JAN-2000;
04-FEB-2000;
24-FEB-2000;
02-MAR-2000;
16-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to novel plant transcription factors from Eucalyptus grandis or Pinus radiata. The present sequence is the coding sequence for one such transcription factor. The transcription factor may be used to produce a plant having modified gene expression such as a woody plant e.g. a eucalyptus, pine, acacia, poplar, sweetgum, teak, or mahogany species or to modify the activity of a polypeptide in a plant. The transcription factors of the present invention are members from the following families of regulatory proteins: bZIP, bZIP family of G-box binding factors, basic helix-loop-helix zipper, LIM domain, AP2 and EREBS, zinc finger domains of type 2 Cys2His2, CCAAT box elements
                                                                                                                                                                                                                                             Human; digestive system antigen; gene therapy; cancer; ulcerative colitis; infection; Hirschsprung's disease; digestive system disorder; Meckel's diverticulum; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated polynucleotide encoding a plant transcription factor for producing a plant e.g. a woody plant, preferably eucalyptus or pine, having modified gene expression or modified activity of a polypeptide
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18-AUG-1999;
                                                                                                                                          02-AUG-2001.
                                                                                                                                                                          WO200155314-A2
                                                                                                                                                                                                                                                                                                                 Human digestive system antigen coding sequence SEQ ID NO: 1174.
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; 2000US-0186350.
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99US-0149485.
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disease; chronic colitis;
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29 - SEP - 2000
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06-SEP-2000;
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2000US-0236367
2000US-0236368
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2000US-0236370
2000US-0237037
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2000US-0232400.
2000US-0232401.
2000US-0233064.
2000US-0233064.
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2000US-0225759.
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2000US-0226681.
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2000US-0198123.
2000US-0205515.
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2000US-0230438.
2000US-0231242.
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2000US-0218290.
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2000US-0217487
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2000US-0216647
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2000US-0234274
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13-OCT-2000

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00-NOV-2000

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09-DEC-2000

08-DEC-2000

08-DEC-2000
                           Claim
                                                   Polynucleotides encoding digestive system antigens, useful for diagnosing, treating, preventing and/or prognozing disorders of the digestive system, particularly cancer and cancer metastases -
present invention provides the protein and coding sequences
                                                                                                                        2001-502630/55.
                           1; SEQ
                                                                                                           AAM93085
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                         NO 1174; 986pp; English
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Matches 26
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07-JUN-2000;
28-JUN-2000;
.30-JUN-2000;
07-JUL-2000;
07-JUL-2000;
             11-JUL-2000
11-JUL-2000
14-JUL-2000
26-JUL-2000
26-JUL-2000
14-AUG-2000
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14-AUG-2000
14-AUG-2000
14-AUG-2000
14-AUG-2000
14-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Liver associated protein; human; mouse; rabbit; goat; horse; cat; dog; chicken; sheep; immunosuppressive; antiarthritic; vasotropic; antirheumatic; antiproliferative; cytostatic; cardiant; neuroprotective; cerebroprotective; nootropic; antibacterial; virucide; fungicide; cancer; ophthalmological; vulnerary; gene therapy; autoimmune disease; neoplasm; hyperproliferative disorder; breast; liver; cardiovascular disorder; ss; cerebrovascular disorder; prous system disorder; bacterial infection; fungal infection; viral infection; ocular disorder; endocrine disorder; gastrointestinal disorder; renal disorder; respiratory disorder; gastrointestinal disorder; renal disorder; respiratory disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    number of human digestive system antigens. These can be used in the diagnosis, treatment and prevention of digestive system disorders, including cancer, Meckel's diverticulum, bacterial or parasitic infections, appendictis, Hirschsprung's disease, chronic colltis culterative colltis. The present sequence is a cDNA encoding a digestic calculation of the present sequence is a cDNA encoding a digestic calculation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             wound healing; skin aging; organ transplantation; tissue regeneration; anti-infertility.
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              2000US-0205515

2000US-0209467

2000US-0211135

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2000US-0212963

2000US-022963

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2000US-0180628.

2000US-0184664.

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14-AUG-2000; 14-AUG-2000; 14-AUG-2000; 14-AUG-2000;

2000US-0225270 2000US-0225447 2000US-0225757 2000US-0225759 2000US-0225759 2000US-0226279 2000US-022629 2000US-0226681 2000US-0226681 2000US-0227182 2000US-0227182 2000US-0227182 2000US-0227182 2000US-0229343

2000US-0229344. 2000US-0229345. 2000US-0229509. 2000US-0229513. 2000US-0230437. 2000US-0231244. 2000US-0231244. 2000US-0231244. 2000US-0231244. 2000US-0231413. 2000US-0231413.

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Sequences AAS31681-AAS31826 represent cDNA molecules, which encode the CC liver associated polypeptides of the invention. Liver associated polypeptides and their associated polynucleotides are useful in the CC diagnosis, treatment and prevention of various types of disorders in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. A CC pathological condition can be determined by detecting the presence or a mutation in a liver associated polynucleotide. The treatable disorders include autoimmune diseases such as rheumatoid arthritis, CC hyperproliferative disorders such as neoplasms of the breast or liver, CC disorders such as cerebral ischaemia, nervous system disorders such as CC cardiovascular disorders such as caradiac arrest, cerebrovascular CC disorders such as cerebral ischaemia, nervous system disorders such as CC coular disorders such as corneal infection, endocrine disorders such as CC cremature labour and infertility, gastrointestinal disorders such as CC crohn's disease, renal disorders such as glomerulonephritis and CC respiratory disorders such as asthma and pleurisy. The polypeptides can consent of the consintain organs before transplantation, to regenerate tissues and in chamburn, consintain organs before transplantation, to regenerate tissues and in
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chemotaxis.
Note: The sequence data for this patent did not
specification, but was obtained in electronic fo
                                                                                                                                                                                                                                                                                                                                                                                                Isolated nucleic acid molecule encoding is used in preventing, treating or ameli particularly cancer of the liver -
                                                                                                                                                                                                                                                                                                                                                                   Claim 1;
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17-NOV-2000;
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26-CCT-2000
27-SEP-2000
28-NOV-2000
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2000US-0232080.
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2000US-023397.
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2000US-0233400.
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RESULT 37
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14-AUG-2000

30-AUG-2000

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05-SEP-2000

05-SEP-2000

21-SEP-2000

21-SEP-2000

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29-SEP-2000
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14-AUG-2000;
14-AUG-2000;
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14-AUG-2000;
                                                                                                                                                                                                                                                                                                                    11-JUL-2000;
11-JUL-2000;
14-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; liver antigen; liver disorder; hepatic disorder; infection; hepatitits; viral; parasitic; bacterial; fungal; inflammatory condition; cirrhosis; granulomatous hepatitits; toxin damage; drug damage; autoimmune disease; Wilson's disease; primary biliary cirrhosis; neoplastic disorder; cancer; tumour; portal hypertension; gastrointestinal disorder; hepatitis; drug screening; gene therapy; chromosome mapping; forensic analysis; antibody preparation; hepatotropic; cytostatic; antiinflammatory; virucide; antibacterial; fungicide; parasiticide; antidote; immunosuppressive; gene; ss.
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14-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human liver antigen HFVIC84 cDNA, SEQ ID NO:134.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
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2000US-179065P.
2000US-118068P.
2000US-214886P.
2000US-214886P.
2000US-217496P.
2000US-217496P.
2000US-229964P.
2000US-224519P.
2000US-22568P.
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Query Match Best Local S Matches 26

Similarity

100.0%; 2.0%;

Score 26; Pred. No. Mismatches

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Gaps

0

24; 5 other;

Length 519; Indels

Conservative

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Sequence 519 BP; 173

Α,

86 C; 82 G; 173

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CC recombinant vectors and host cells comprising human liver antigen
CC polynucleotides, antibodies against human liver antigens, and the use of
CC liver antigen polynucleotides and polypeptides in diagnosing, treating,
CC prognosing or preventing various disorders of the liver. Such conditions
CC include viral infections (e.g., cytomegalovirus, Epstein-Barr virus,
CC hepatitis A virus, hepatitis B virus and hepatitis C virus), parasitic
CC infections (e.g., Clonorchis sinensis, Echinococcus granulosus and
CC Entamoeba histolytical, and also bacterial and fungal infections. Other
CC disorders that may be treated include inflammatory conditions (e.g.,
CC cirrhosis and granulomatous hepatitis), damage caused by drugs or toxins,
CC autoimmune diseases (e.g. Wilson's disease, primary billary cirrhosis),
CC carcinomal, portal hypertension, or gastrointestinal disorders (e.g.,
CC peptic ulcers, gastritis and peritoneal diseases). Liver antigen
CC compounds which modulate liver antigen expression or activity. The
CC polynucleotides may further be used for gene therapy, chromosome
CC mapping, in the identification of individuals and in forensic analysis,
CC and the polypeptides may be used as molecular weight markers or to
CC prepare antibodies useful in disease diagnosis, drug targeting and
CC prepare antibodies useful in disease diagnosis, drug targeting and
CC prepare antibodies useful in disease diagnosis, drug targeting and
CC antigen of the invention.
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29-SEP-2000;

02-OCT-2000;

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20-OCT-2000;

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(RUBE/) RUBEN S
(BARA/) BARASH S
                           specification, but was obtained in e
USPTO at seqdata.uspto.gov/sequence/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABP40975) and to cDNAs encoding them (ABN90036-ABN90180), and also encompasses polypeptides 90% identical and polynucleotides 95% identical to the sequences of the invention. The invention additionally relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New nucleic acid encoding human liver antigens, useful for diagnosis, treatment and prevention of e.g. hepatitis and hepatic cancer, also related polypeptides and antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention ABP40975) and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1;
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2000US-239935P.
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RESULT 38 AAS34097/c IID AAS34097 standard; cl XX AAS34097; XC AAS34097; XX XX XX XX XX Human cDNA encoding a XX Human foetal tissue immunomodulator; cotal KW Cardiovascular; autoi KW Cardiovascular disord Cardiovascular disord Cardiovascular disord Cardiovascular disord Cardiovascular disord Cardiovascular disord CARD CARD CARD CARD CARD CARD CARD CARD					
ANS34097 standard; CDNA; 524 BP. ANS34097; I1-DEC_2001 (first entry) Human CDNA encoding a novel foetal antigen, SEQ ID No 621. Fordio-Mark Control tissue antigen; ss, antiinflammatory; neuroprotective; neu					
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08-SEP-2000; 08-SEP-2000; 08-SEP-2000; 08-SEP-2000; 10-SEP-2000; 11-SEP-2000; 11-SEP-2000; 11-SEP-2000; 11-SEP-2000; 11-SEP-2000; 12-SEP-2000; 12-SEP-2000; 13-SEP-2000; 12-SEP-2000; 13-SEP-2000; 12-SEP-2000; 13-SEP-2000; 13-SE					
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17-NOV-2000;

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RESULT 39
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                                                                                                                                                                                                                                                                                                                                                                    The invention relates to novel nucleic acids encoding novel human foetal CC antigens. The nucleic acids and proteins are used to prevent, treat (e.g. CC by gene therapy) or ameliorate a medical condition in e.g. humans, mice, CC rabbits, goats, horses, cats, dogs, chickens or sheep. They CC are also used in diagnosing a pathological condition or susceptibility CC to a pathological condition. The antibodies to the antigens can also be used in alleviating symptoms associated with the disorders and in CC immunostic immunoassays e.g. radioimmunoassays or enzyme linked CC immunosorbent assays (ELISA). Disorders which are disonders and in CC immunosorbent assays (ELISA). Disorders which are dispnosed or treated CC include autoimmune disorders e.g. rheumatoid arthritis, CC e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g. CC e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g. CC Alzheimer's disease, infections caused by bacteria, viruses and fungit CC and ocular disorders e.g. corneal infection. The polypeptides can also CC be used to aid wound healing and epithelial cell proliferation, to CC prevent skin aging due to sumburn, to maintain organs before cransplantation, for supporting cell culture of primary tissues, to CC regenerate tissues and in chemotaxis. The polypeptides can also be used CC as a food additive or preservative to increase or decrease storage
                                                                                                                                                                                                                                                   Query Match
Best Local 9
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                                                                                                                                                                                                                                                                                                                        capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, cofactors and other nutritional components. Numerous examples of diseases and disorders treated by the nucleic acids and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; SEQ ID No 621; 642pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   preventing or prognosing musculoskeletal, excretor
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26-JAN-2001
                                 AAC59486
                                                                 AAC59486 standard; cDNA; 569 BP
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2000US-0251990.
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2000US-0251856.
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(first entry
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cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; fungicide; ophthalmological; vulnerary; gene therapy; autoimmune disease hyperproliferative disorder; neoplasm; cancer; cardiovascular disorder; angiogenesis; nervous system disorder; infection; ocular disorder; wound healing; skin aging; food additive;
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                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
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10-DEC-1999;
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99US-0169910.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antiproliferative;
                                                                                                                                                                                                                                                                                                              Komatsoulis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             diagnosis; antiarthritic; immunosuppressive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytostatic; cardiant; vasotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene therapy; autoimmune disease;
                                                                                                                                                                                                                                                                      proteins
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New isolated nucleic acid molecules encoding 49 human secreted proused for preventing, treating or ameliorating medical conditions, diagnosing pathological conditions or as food additives or

Claim 1; Page 355-356; 419pp; English

The polynucleotide sequences given in AAC59447 to AAC59497 encode the CC AAB34216 represent human secreted polypeptide sequences and proteins CC AAB34216 represent human secreted polypeptide sequences and proteins CC invention. Human secreted proteins have activities based on the tissue and cells the genes are expressed in. Examples of activities include: antiarthritic; immunosuppressive; antirheumatic; antiproliferative; cardiant; vasotropic; cerebroprotective; nootropic; cerebroprotective; nootropic; can vulnerary. The polynucleotides and polypeptides can be used to prevent, treat or ameliorate a medical condition in e.g. humans, mice, crabbits, goats, horses, cats, dogs, chickens or sheep. They are also used to in diagnosing a pathological condition or susceptibility to a cancer of the breast or liver, cardiovascular disorders e.g. neoplasms or cancer of the breast or liver, cardiovascular disorders, angiogenesis, nervous system disorders. The polypeptides can caused by acteria, viruses and fungi and ocular disorders. The polypeptides can caused by acteria, viruses and fungi and ocular disorders. The polypeptides can caused by acteria, viruses and fungi and ocular disorders. The polypeptides can caused by acteria, viruses and fungi and ocular disorders. The polypeptides can caused by acteria, viruses and fungi and ocular disorders. The polypeptides can caused by acteria, and ocular disorders. The polypeptides can caused by acteria, and ocular disorders. The polypeptides can also be used to aid wound healing and epithelial cell proliferation, to capabilities. AAC59440 to AAC59448 and AAB34091 represent sequences used contabilities. AAC59440 to AAC59448 and AAB34091 represent sequences used in the exemplification of the present invention.

Sequence 569 BP; 208 A; 67 C; 112 G; 182 T; 0 other;

Query Match Best Local S Matches 26 1298 TAAAAAAAAAAAAAAAAAACTCGAG 1323 Similarity Conservative 2.0%; 0 Score 26; DB Pred. No. 5.2 Mismatches 561 0 Length 569; Indels Gaps

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RESULT 40
AAH87896
ID AAH87
                                                                                                                              RESULT 41
AAH34095
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 XXXXXXXX
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                                                                                                                                                                                                                                                                                                          Query Match
Best Local 9
                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                correspond to all or part of a mRNA molecule expressed in plant oil gland cells, especially peppermint and plant oil glands that produce terpenoid essential oils and resins. The nucleic acids are useful for genetically mapping a plant genome for genes expressed in plant oil gland cells and to suppress (for example by antisense suppression) or enhance their expression (for example by genetically transforming a plant cell with a replicable expression vector that expresses one or more proteins naturally expressed in plant oil gland cells). The nucleic acids are also useful for recombinant expression of plant oil gland proteins required for terpenoid essential oil and/or resin production in bacterial and/or yeast cells.
Human; colon cancer; colon cancer antigen; diagnosis; detection;
                           Human colon cancer antigen encoding cDNA SEQ ID NO:1177.
                                                         03-SEP-2001
                                                                                     AAH34095;
                                                                                                                  AAH34095 standard;
                                                                                                                                                                                                                                                                                                          Sequence 577 BP; 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to nucleic acid molecules (AAH87645-AAH88116) that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 1; Page 172; 251pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New nucleic acid molecules corresponding to mRNA molecules expressed in peppermint oil glands for enhancing expression of plant oil gland cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Croteau RB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           26-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             genetic mapping; antisense suppression; recombinant expression; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Peppermint; plant oil gland cell; terpenoid essential oil; resin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-SEP-2001 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-JAN-2000; 2000US-0177264.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CROT/) CROTEAU R B.
(LANG/) LANGE B M.
(WILD/) WILDUNG M R.
                                                                                                                                                                                                                     1298 TAAAAAAAAAAAAAAAAAACTCGAG 1323
                                                                                                                                                                                                                                                 26;
                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lange BM,
                                                         (first entry)
                                                                                                                  CDNA;
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                                                                                                                                                                                                                                                                                                        A; 117 C; 130 G; 145 T; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       expressed cDNA 252
                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                Score 26;
Pred. No.
                                                                                                                   ΒP
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                                                                                                                                                                                                                                                                            DB 22;
                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                             Length 577;
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AAH88017/c
ID AAH880
XX AAH880
XX AAH880
XX AAH880
XX Pepper
XX AAH880
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patients own production of P. Additionally, N may be used to produce the colon cancer-associated Ps. by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and ABP7789 represent sequences used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               present invention. N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present SEQ ID NO:1027 to 1052, 7921 and 7922.
                                                                                 Peppermint; plant oil gland genetic mapping; antisense
                                                                                                                                     Peppermint plant oil gland expressed cDNA 373.
                                                                                                                                                                          25-SEP-2001
                                                                                                                                                                                                            AAH88017;
                                                                                                                                                                                                                                          AAH88017 standard; cDNA; 639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nucleic acids encoding 4277 human colon cancer-associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-APR-2001.
                 WO200153319-A1.
                                                 Mentha x piperita
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-235357/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-SEP-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             colorectal carcinoma; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                               1298 ТАЛАЛАЛАЛАЛАЛАЛАЛАЛАСТССВАС 1323
                                                                                                                                                                                                                                                                                                                             545 TAAAAAAAAAAAAAAAAAACTCGAG 570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MS,
                                                                                                                                                                                                                                                                                                                                                                                                 26;
                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   591 BP; 199 A; 95 C; 114 G; 182 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Barash SC,
                                                                                                     plant oil gland cell; terpenoid essential oil; resin;
                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                        (first entry)
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99US-0163280.
                                                                                                                                                                                                                                                                                                                                                                                                                 2.0%;
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                                                                                     suppression;
                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                 Score 26;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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                                                                                       recombinant
                                                                                                                                                                                                                                                                                                                                                                                                                   2
                                                                                                                                                                                                                                                                                                                                                                                                                                   22;
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                                                                                       expression; ss.
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to nucleic acid molecules (AAH87645-AAH88116) that correspond to all or part of a mRNA molecule expressed in plant oil gland cells, especially peppermint and plant oil glands that produce terpenoid essential oils and resins. The nucleic acids are useful for genetically mapping a plant genome for genes expressed in plant oil gland cells and to suppress (for example by antisense suppression) or enhance their expression (for example by genetically transforming a plant cell with a replicable expression vector that expresses one or more proteins naturally expressed in plant oil gland cells). The nucleic acids are also useful for recombinant expression of plant oil gland proteins required for terpenoid essential oil and/or resin production in bacterial and/or yeast cells.
                                                                                                                                                                                                                                                             Human colon cancer antigen encoding cDNA SEQ ID NO:507.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI;
                                                                            29-SEP-1999;
03-NOV-1999;
                                                                                                                                            05-APR-2001.
                                                                                                                                                                     WO200122920-A2
                                                                                                                                                                                                                                     Human; colon cancer;
                                                                                                                                                                                                                                                                                         03-SEP-2001
                                                                                                                                                                                                                                                                                                                   AAH33451;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 639 BP; 191 A; 118 C; 137 G; 193 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; Page 214; 251pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New nucleic acid molecules corresponding to mRNA molecules expressed in peppermint oil glands for enhancing expression of plant oil gland cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Croteau
WPI; 2001-235357/24
                         Ruben
                                                                                                                 28-SEP-2000; 2000WO-US26524
                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                         colorectal carcinoma;
                                                                                                                                                                                                                                                                                                                                           AAH33451 standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (CROT/) CROTEAU R B.
(LANG/) LANGE B M.
(WILD/) WILDUNG M R.
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                                                 (HUMA-) HUMAN GENOME
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                                                                                                                                                                                                                                                                                                                                                                                                                          1298 TAAAAAAAAAAAAAAAAAAAACTCGAG 1323
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                         SM,
                                                                                                                                                                                                                                                                                                                                                                                                           31
                                                                                                                                                                                                                                                                                                                                                                                                                                                               26;
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                                                                                                                                                                                                                                                                                                                                                                                                             TAAAAAAAAAAAAAAAAAAACTCGAG
                        Barash SC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
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                                                                                                                                                                                                                                                                                       (first entry
                                                                            99US-0157137.
99US-0163280.
                                                                                                                                                                                                                                     colon cancer antigen; diagnosis; detection;
                                                   SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
                                                                                                                                                                                                                          88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2.0%;
                         Birse
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Pred. No.
                         E,
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                         Rosen CA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 22;
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RESULT 44
AAC93368
ID AAC93
XX AAC93
XX 26-FE
XX 26-FE
XX Human
XX Homo
XX Homo
XX Homo
XX Homo
XX 19-OC
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Best Local S
Matches 26
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    present invention.

N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present SEQ ID NO:1027 to 1052, 7921 and 7922.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fungicide; ophthalmological; gene therapy; autoimmune disease; infection; hyperproliferative disorder; cardiovascular disorder; angiogenesis; cerebrovascular disorder; nervous system disorder; ocular disorder; wound healing; skin aging; food additive; preservative; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human; secreted protein; diagnosis; immunosuppressive; antiarthritic; antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human
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WPI; 2000-619225/59
                                                               Rosen CA,
                                                                                                                                                                                                                        09-APR-1999; 99US-0128702
20-JAN-2000; 2000US-0177049
                                                                                                                                                                                                                                                                                                                        06-APR-2000; 2000WO-US09069
                                                                                                                                                                                                                                                                                                                                                                                        19-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200061620-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon
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                                                                                                                           (HUMA-) HUMAN GENOME SCI
(ROSE/) ROSEN C A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
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                                                               Ruben SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein gene 5 SEQ ID NO:15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
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                                                                  Komatsoulis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 26;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and proteins (P), where and proteins (P) antiqens. The colon
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>.</u>
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P-PSDB; AAB51624

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC antiarthritic; immunosuppressive; antirheumatic; antiproliferative;
CC cytostatic; cardiant; vasotropic; cerebroprotective; nootropic;
CC neuroprotective; antibacterial; virucide; fungicide; and
CC ophthalmological. The polynucleotides and polypeptides can be used to
CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,
CC rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used
CC in diagnosing a pathological condition or susceptibility to a
CC pathological condition. Disorders which are diagnosed or treated include
CC pathological condition. Disorders which are diagnosed or treated include
CC disorders, cerebrovascular disorders, angiogenesis, nervous system
CC disorders, infections caused by bacteria, viruses and fungi and ocular
CC disorders. The polypeptides can also be used to aid wound healing and
CC epithelial cell proliferation, to prevent skin aging due to sunburn, to
CC maintain organs before transplantation, for supporting cell culture of
CC polypeptides can also be used as a food additive or preservative to
CC increase or decrease storage capabilities. AAC93355 to AAC93363 and
CABB51619 represent sequences which are used in the exemplification of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local
                                                                                                                                                                                                           gene
27-MAR-2001; 2001US-278650P.
12-SEP-2001; 2001US-0950082.
                                                                                                                                                                                                                             antifungal; antiparasitic; cardiant;
cardiovascular disorder; neurologica
                                                                                                                                                                                                                                               antinflammatory; antiallergic; antidiabetic; antiulcer; anticonvulsant; antifundal: antiparasitic; cardiant; immune disorder; infection; vaccine;
                                                                                                                                                                                                                                                                                                                           Human; secreted protein; nootropic; neuroprotective; cytostatic; virucide; dermatological; immunosuppressive; antiinflammatory; a
                                                       26-MAR-2002; 2002WO-US09188
                                                                                                                                                                                                                                                                                     antiarthritic; cancer; antirheumatic; hepatotropic; cerebroprotective;
                                                                                                                                                                                                                                                                                                                                                                                    Human secreted protein encoding cDNA SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                          26-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABZ67172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABZ67172 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                homologous to them, which are given in the exemplification of the prese invention. Human secreted proteins have activities based on the tissues
                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                         vulnerary; antibacterial; antiparkinsonian;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Isolated nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAB51722 represent human secreted polypeptide sequences and proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cells the genes are expressed in. Examples of activities include:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polynucleotide sequences given in AAC93364 to AAC93412 encode
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1298 TAAAAAAAAAAAAAAAAAAACTCGAG 1323
                                                                                                                                                                                                           therapy; gene;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Page 424-425; 540pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      secreted proteins given
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nucleic acid molecule encoding a human secreted protein preventing, treating or ameliorating a medical condition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TAAAAAAAAAAAAAAAAAAACTCGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         655 BP; 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CDNA; 655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; 133 C; 135 G; 190 T; 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
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                                                                                                                                                                                                                               neurological
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          · 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 26;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ВP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        in AAB51620 to AAB51668. AAB51669 to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    652
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                                                                                                                                                                                                                                                                                                             antisickling;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 655;
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                                                                                                                                                                                                                                                                                                             antianaemic;
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                                                                                                                                                                                                                                                                                                                               anti-HIV;
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RESULT 46
AAD08196
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant) agonists are useful in the diagnosis, treatment and prevention of:

(a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative collitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections.
                                                                                                                                                                                                                                                                                                                                                                           immune system disorder; AIDS; autoimmune disease; rheumatoid arinflammation; allergy; neurological disorder; Alzheimer's disease; Parkinson's disease; cognitive disorder; schizophrenia; asthma; skin disorder; psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder; angiogenic disorder; kidney disorder;
                     sig_peptide
                                                                                                                                                                                                                                                                                        endocrine disorder; infection;
cell culture; chemotaxis; food
                                                                                                                                                                                                                                                                                                                                                  gastrointestinal disorder; pregnancy-related disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                07-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAD08196 standard; cDNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New human secreted proteins encoded by genes contained in cDNA clones (e.g. HGCAC19), useful for preventing, treating or diagnosing e.g. AIDS, multiple sclerosis, herpes virus, leukemia, tick-borne
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 7; Page 1321; 2423pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             encephalitis or West Nile fever
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12-SEP-2001; 2001US-0950083.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             secreted protein; proliferative disorder; cancer; tumour; abnormality; developmental abnormality; haematopoietic di
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           relates to novel human genes (A
ced proteins (ABP99470-ABP99872)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein-encoding gene 6 cDNA clone HE90W91,
                     /*tag= a
/product=
33..113
                                                                                                                                                                                                                                                                identification;
                                                                                                                33..509
                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    682
                                                      "Human secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 26;
Pred. No.
                                                                                                                                                                                                                                                                                                                    wound healing; vulnerary;
                                                                                                                                                                                                                                                                                        additive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                88
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                                                      protein precursor"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ABZ66891-ABZ68209) and to (ABZ66891 (ABZ66891) (ABZ66891) and to (ABZ66891) (ABZ68891) and to (ABZ66891) and (ABZ66891) an
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                                                                                                                                                                                                                                                                                                                                                     gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     c disorder; arthritis;
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RESULT 47
AAZ98306
ID AAZ98
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                                                                                                                                                                                           CC 19 genes, based on the tissues in which they are most highly expressed, CC and include developing products for the diagnosis or treatment of CC proliferative disorders, cancer, tumours, foetal and developmental CC abnormalities, haematopoietic disorders, diseases of the immune system, CC allergies, neurological disorders (e.g., rheumatoid arthritis), inflammation, CC allergies, neurological disorders (e.g., Alzheimer's disease, CC Parkinson's disease), cognitive disorders, schizophrenia, asthma, CC exin disorders (e.g., psoriasis) sepsis, diabetes, atherosclerosis, CC cardiovascular disorders, angiogenic disorders, kidney disorders, CC gastrointestinal disorders, pregnancy-related disorders devound control testinal disorders, pregnancy-related disorders devound control testinal disorders, pregnancy-related disorders, and wound control testinal disorders, pregnancy-related disorders, and wound control testinal disorders, and increased disorders, and can be used to aid wound control testinal disorders, pregnancy-related disorders, contained to a sometime tissues, to regenerate tissues, to identify their cognate ligands or binding partners, and in chemotaxis, and can be used as a food additive or preservative to modify storage properties.

CC Antibodies specific for a protein of the invention can be used in disgnostic immunosessay or enzyme linked communosorbent assay (ELISA). The present sequence represents a human contained protein-encoding cDNA of the invention.
                                                                        밁
                                                                                                                                   Matches
                                                                                                                                                Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAD08191-AAD08213 represent cDNAs corresponding to 19 human secreted protein genes and AAE03764-AAE03786 represent the proteins they encode. AAE03787-AAE03800 represent human secreted protein fragments or variants. The genes and their secreted proteins are useful for preventing, treating or ameliorating medical conditions, e.g., by protein or gene therapy. Pathological conditions can be diagnosed by determining the amount of the new protein in a sample or by determining the presence of mutations in the new genes. Specific uses are described for each of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel human secreted proteins and nucleic acids for diagnosing, preventing and treating neurological, cardiovascular, infectious, autoimmune, gastrointestinal, bone disorders, cancer, particularly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                17-OCT-2000; 2000WO-US28664
                                                                                                                                                                                           Sequence 682 BP; 149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; Page 378; 421pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ovarian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-NOV-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Komatsoulis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200132837-A1
                                                                                                      1298 TAAAAAAAAAAAAAAAAAAAACTCGAG 132
                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Birse CE, Ni J,
                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Wei P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-0163085.
99US-0172411.
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/product=
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n CA, Ruben SM, Du
Ni J, Soppet DR,
                                                                                                                                                 100.0%;
                                                                                                                                                                                           A; 172 C; 222 G; 139 T; 0 other;
                                                                                                                                                              2.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Mature human secreted protein precursor"
                                                                                                                                  0; Mismatches
                                                                                                                                                 Score 26;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Olsen HS, Bak
SM, Duan RD,
bet DR, Shi Y;
                                                                          669
                                                                                                                                                              22;
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                                                                                                                                  <u>.</u>
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                                                                                                                                                              Length 682;
                                                                                                                                   Indels
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E, Florence
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                                                                                                                                   Gaps
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Best Local S
Matches 26
                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 695 BP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Arabidopsis thaliana.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Environmental stress; dehydration; drought;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-JUN-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ98306;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               isolating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            of polynucleic genes involved
                                                                                                                                                                                                                                                                                                                                                              Conservative
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AAZ98306 standard; DNA; 695

BP

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RESULT 48
AAZ17199/c
ID AAZ17199 standard; c
XX
AAZ17199;
AC AAZ17199;
XX
DT 12-OCT-1999 (first of t)
XX
DE Human gene expression
XX
Human; gene; gene ex
XX
detection; mapping;
XX
Genetic analysis; co
XX
PN
WO9938972-A2.
                                                                                                                           Human; gene; gene expression product; diagnosis; therapy; probe; detection; mapping; tissue typing; profiling; forensic; cancer; genetic analysis; colorectal cancer; breast cancer; lung cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to isolation of coding sequences and/or genes involved in tolerance to environmental stress in plants. The sequences (AAZ98305-298365) are useful for producing a transgenic plant having enhanced tolerance or resistance to environmental stress conditions such as anaerobic, flooding, cold, dehydration, drought, heat stress or salinity. This is useful for producing improved yield, growth, development and productivity under environmental stress conditions, and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the induced osmotolerance. Sequences AAZ98305-365 represent polynucleotide sequences from A. thaliana that are involved
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A. thaliana HSP 17.6A protein encoding
                                                                                                                                                                                                                         Human gene expression product cDNA sequence SEQ ID NO:4670
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             environmental stress tolerance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      also provides growth of crops in areas where they cannot grow without the induced osmotolerance. Sequences AA298305-365 represent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (VLAA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1298 TAAAAAAAAAAAAAAAAAACTCGAG 1323
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                                                                                                                                                                                                                                                                                                                                                                         CDNA; 712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      acids useful for producing transgenic in tolerance to environmental stress
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 26; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                             CC comprising the sequences given in AAZI2532 to AAZI7779. Also described is CC a method of detecting differentially expressed genes correlated with the CC cancerous state of a mammalian cell, comprising detecting at least one CC differentially expressed gene product in a test sample from a cell comperciated of the being cancerous, where the gene product is encoded by one CC plynucleotides can be used as a source of primers and probes, which can be used for a variety of purpose, e.g. detection of expression levels, CC mapping, tissue typing or profiling, forensics, genetic analysis and CC detection of polymorphisms. Polypeptides encoded by the polynucleotides can be used for raising antibodies for experimental, diagnostic and CC arrays for diagnostics (which may be used to determine function of an arrays for diagnostics (which may be used to determine function of an CC arrays for diagnostics (which may be used to determine function as CC identify a genetic prediagosition or susceptibility to a disease such as CC identify a genetic prediagosition or susceptibility to a disease such as CC and lung cancer. The polynucleotides can also be used to screen for contracts
                                                                                                                                                                                                                                                                                              Matches
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31-MAR-1998;
03-APR-1998;
          Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Crkvenjakov R, Dickson M, Drmanac R, Drmanac S
Bscobedo J, Garcia PD, Garcia V, Gisese K, Inn
Jones WL, Kassam A, Kennedy GC, Kita D, Labat
Lamson G, Leshkowitz D, Pot D, Randazzo F, Re
Stache-Crain B, Sudduth-Klinger J, Williams LT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel human genes and their expression products which differentially expressed in different cell types
                                                                                                     09-FEB-2001
                                                                                                                                  AAC63453;
                                                                                                                                                            AAC63453 standard; cDNA; 735
                                                                                                                                                                                                                                                                                                                                                          Sequence
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                                                                        secreted
                                                                                                                                                                                                                                        91
                                                                                                                                                                                                                                                                                                               Similarity
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                                                                                                                                                                                                                                                                                                                                                                                     analogues
                                                                                                                                                                                                                                                                                                                                                          712 BP;
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                                                                                                                                                                                                                                                                                                 Conservative
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98US-0072910.
98US-0075954.
98US-0080114.
98US-0080515.
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Pred. No.
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                                                                        SEQ
disorder;
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                                                                                                                                                                                                                                                                                                                            Length 712;
 cardiovascular disorder;
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RESULT 50
AAC66438
ID AAC66
XX Cytos
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                                                                                                                                                                                                                                                                                                                                                                      Matches
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                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                         Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral; antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
                                                                                                                           Human secreted protein coding
                                                                                                                                                           14-FEB-2001
                                                                                                                                                                                                                          AAC66438
                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
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20-JAN-2000; 2000US-0177050.
Homo sapiens
                                               cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to the isolation of genes AAC63410-C63458 encoding 49 human secreted proteins AAB29802-B29850. The genes can be used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2000-647424/62
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        neurological disease; infection; human; secreted protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 solated nucleic acid molecule encoding a human secreted in preventing, treating or ameliorating a medical co
                                                                                                                                                                                                                                                                                                                                                                                   Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 parasitic infections.
                                                                                                                                                                                                                                                                                                                                       1298
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26; Conserv
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                                                                                                                                                                                                                          standard; DNA;
                                                                                                                                                                                                                                                                                                                                       TAAAAAAAAAAAAAAAAACTCGAG 1323
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                                                                                                                                                                                                                                                                                                         TAAAAAAAAAAAAAAAACTCGAG
                               gene therapy; cancer;
cal disease; infection
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                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                  BP; 170
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Pred. No.
                                                                                                                           sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                 immune disorder;
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                                                                                                                                                                                                                                                                                                         682
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                                                                                                                                                                 the fusion protein as compared to the human protein only. The genes and proteins are useful for preventing, ameliorating or treating medical conditions, e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer, and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and englepsy; and (f) infectious diseases such as viral, bacterial, fungal
                                                                           Query Match
Best Local Similarity
Matches 26; Conserv
                                                                                                                                                              Sequence 784 BP; 220 A; 169 C; 139 G; 251 T; 5 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nucleic acid molecules encoding human secreted proteins, used in preventing, treating or ameliorating a disorder, e.g. Alzheimer's and Parkinson's diseases and cancers -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to the isolation of genes AAC66410-C66458 encoding 49 human secreted proteins AAB32002-B32050. The genes can be used to generate fusion proteins by linking to the gene for the human immunoglobulin GFc portion (SEQID1) for increasing the stability of
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P-PSDB; AAB32030.
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22-DEC-1999;
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                                                                                                                                                                                                       and parasitic infections.
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                                                                  Score 29;
Pred. No.
                                                     Mismatches
                                                                   DB 4;
0.01;
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                                                                                Length 1049
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RESULT 2 US-08-849-751-1

Gaps

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US-0y--...
; Sequence 1, Applic.
; Sequence 1, Applic.
; Patent No. 6306635
; GENERAL INFORMATION:
    APPLICANT: VAN DEN BROECK, HENRIETTE C.
; APPLICANT: VAN DEN BROECK, HENRIETTE C.
; APPLICANT: USSER, JACOB
: APPLICANT: VISSER, JACOB
                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                ; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 57...773
; OTHER INFORMATION: product="Cellulase"
US-08-849-751-1
                                                                                                                                                           RESULT 3
US-09-478-816-1
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                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 1017 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: PCT/
FILING DATE: 14-OCT-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/01
FILING DATE: 12-JUN-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: MUTASHIGO, KATE H
REGISTRATION NUMBER: 29,959
REFERENCE, DOCKET NUMBER: 24.
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM:
SOFTWARE: FastSE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     INDIVIDUAL ISOLATE: CBS120.49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Aspergillus niger
STRAIN: N400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS: double TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX:
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                                                                                                                                                                                                                                                       1297 GTAAAAAAAAAAAAAAAAAACTCGAG 1323
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$190890
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VAN OOYEN, ALBEKT C...
VAN OOYEN, ALBEKT C...
VAN OOYEN, ALBEKT C...
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FastSEQ for Windows Version
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DE GRAAFF, LEENDERT H.
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                                                                                                                                                                                                                                                                                                              Score 27; DB 3; Pred. No. 0.064;
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                                                                                                                                                                                                                                                                                                                              Length 1017;
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TITLE OF INVENTION:

FUNGAL CELLULASES

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Query Match
Best Local Similarity
Thes 27; Conserv
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                                                                                                                                                                                 Sequence 149,
                                                                                                                                                Patent No. 6444425
GENERAL INFORMATION:
                             TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS OF TITLE OF INVENTION: LUNG CANCER AND METHODS FOR THEIR USE FILE REFERENCE: 210121.475C1
CURRENT APPLICATION NUMBER: US/09/370,838
                                                                               APPLICANT: Mohamath, Roadoh
APPLICANT: Secrist, Heather
                                                                                                                NPPLICANT: Reed, Steven G. NPPLICANT: Lodes, Michael
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STRANCE NO
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ATTORNEY/AGENT INFORMATION:
NAME: Murashige, Kate H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
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MEDIUM TYPE: Diskett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Asp
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                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: 57...77.
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: Coding Sequence LOCATION: 57...773
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INDIVIDUAL ISOLATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 24
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FILING DATE: 12-JUN-1997
APPLICATION NUMBER: PCT/EP96/04511
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CLASSIFICATI
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                                                                                                                                                                                                                                                                                                   1297 GTAAAAAAAAAAAAAAAAAACTCGAG 1323
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: DC
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EDNESS: double
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N400
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                                                                                                                                                                                 Application US/09370838
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IBM Compatible
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                                                                                                                Michael J.
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100. 0%; FI
                                                                                                                                                                                                                                                                                                                                                                                                                   product="Cellulase"
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                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                    0;
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SEQ ID NO 149
LENGTH: 1061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Patent No.
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EARLIER FILING DATE: 1999-04-02
NUMBER OF SEQ ID NOS: 289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Topfer
                                                                                                                                                                                                                TELEFAX: 714-854-4897
NFORMATION FOR SEQ ID NO:
                             ORIGINAL SOURCE:
ORGANISM: Cuphea lanceolata
IMMEDIATE SOURCE:
                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION DATA: APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Schell, TITLE OF INVENTION: TITLE OF INVENTION:
                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
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                                                                             HYPOTHETICAL:
ANTI-SENSE: NO
                                                                                                            TOPOLOGY: 15
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                                                                                                                                              STRANDEDNESS:
                                                                                                                                                                                                                                                                                                REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: FILING DATE: 02-SEP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Irvine
                                                                                                                                                                               ENGTH:
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C1GPDH30
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Schell, Jozef
Schell, GLYCEROL-3-PHOSPHATE DEHYDROGENASE
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Conservative
               ZAP cDNA library
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                                                                                                                                linear
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02-SEP-1994
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01-MAR-1996
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Best Local Similarity
Thes 26; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; TYPE: DNA
; ORGANISM: Homo sapien
US-09-370-838-17
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; LOCATION:
US-08-605-150A-7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS TITLE OF INVENTION: LUNG CANCER AND METHODS FOR THEIR US FILE REFERENCE: 210121.475C1
CURRENT APPLICATION NUMBER: US/09/370,838
CURRENT FILING DATE: 1999-08-09
EARLIER APPLICATION NUMBER: US 09/285,323
EARLIER PILING DATE: 1999-04-02
NUMBER OF SEQ ID NOS: 289
SOPTWARE: FABLSEQ for Windows Version 3.0
SEQ ID NO 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 100.
Matches 27; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 10,
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             COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Ve
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Reed, Steven G. APPLICANT: Lodes, Michael J. APPLICANT: Mohamath, Roadoh APPLICANT: Secrist, Heather
                                                                                                                                                                                                                                                                                                                                                                                                       GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ENGTH:
                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
                                                                                                                                                                                                                                                                                                                                          APPLICANT: Reed, Steven G.
APPLICANT: Dillon, Davin C
APPLICANT: Twardzik, Danie
                                                                                                                                                                                                                                                                                   APPLICANT: Mitcham, Jennifer L.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND IMMUNODIAGNOSIS OF PROSTATE CANCER
                                                                                                                                                                STREET: 6300 Colun
CITY: Seattle
STATE: Washington
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                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/08946026
                                                                                                                                                                                                           6300 Columbia Center, 701 Fifth Avenue
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                                                                                                                                                                                                                                                                                                                                            Twardzik, Daniel R.
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US/08/946,026
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Pred. No. 0.19;
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                                     Version #1.30
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TELEPAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 10
SEQUENCE CHARACTERISTICS:
LENGTH: 403 base pairs
TYPE: nucleic acid
GENERAL INFORMATION:
APPLICANT: ROSEN et al
TITLE OF INVENTION: 98 Human Secreted Proteins
FILE REFERENCE: PZ031P1
CURRENT APPLICATION NUMBER: US/09/489,847
CURRENT FILING DATE: 2000-01-24
EARLIER APPLICATION NUMBER: PCT/US99/17130
EARLIER FILING DATE: 1999-07-29
EARLIER APPLICATION NUMBER: 60/094,657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 30
SOFTWARE: Microsoft Office 97
SEQ ID NO 21
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Patent No. 6
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                                                                                                                                                                            Patent No.
                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
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CURRENT FILING DATE: 1999-11-12
EARLIER APPLICATION NUMBER: 60/108,351
EARLIER FILING DATE: 1998-NO. 6479733ember-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Rafalski, Jan Antoni
APPLICANT: Odell, Joan T.
APPLICANT: Sakai, Hajime
APPLICANT: Thorpe, Catherine J.
APPLICANT: Kinney, Anthony J.
APPLICANT: Famodu, Omolayo O.
TITLE OF INVENTION: STEROL METABOLISM ENZYMES
FILE REFERENCE: BB1114 US NA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 815
TYPE: DNA
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NAME: Maki, David J
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 21
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Y Match 2.0%;
Local Similarity 100.0%;
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STRANDEDNESS: 81..
CY: linear
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                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
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                                                                                                                                                                                                                                                                                                                      1298 TAAAAAAAAAAAAAAAAAAAAACTCGAG 1323
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                                                                                                                                                                            60, Application US/09489847
5. 6476195
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ilarity 100.0%; Pred. No. 0.16;
Conservative 0; Mismatches
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Best Local Similarity
Matches 26; Conserv
                                                                                         SEQ ID NO 7
LENGTH: 1141
TYPE: DNA
ORGANISM: Adonis aestivalis
Query Match 2.0%; Score 26; DB 4; Length 1141; Best Local Similarity 100.0%; Pred. No. 0.16; Matches 26; Conservative 0; Mismatches 0; Indels
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Patent No. 6551807
GENERAL INFORMATION:
APPLICANT: Cunningham, Francis X
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 60
                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/674,529B
CURRENT FILING DATE: 2002-04-01
PRIOR APPLICATION NUMBER: PCT/US99/10455
PRIOR FILING DATE: 1999-05-21
                                                                                                                                                                                                                                                                                                                                                                                                                                             09-674-529B-7
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EARLIER
EARLIER
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SOFTWARE: PatentIn version 3.1
                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 60/086,460 PRIOR FILING DATE: 1998-05-22
                                                                                                                                                                                                                                                                                                                 APPLICANT: CUNDINGHAM, Francis X
TITLE OF INVENTION: CAROTENOID KETOLASE GENES AND GENE PRODUCTS, PRODUCTION OF
TITLE OF INVENTION: KETOCAROTENOIDS AND METHODS OF MODIFYING CAROTENOIDS USING
FILE REFERENCE: 108172-00023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ERALLER APPLICATION NUMBER: 60/095,454
EARLIER FILING DATE: 1998-08-06
EARLIER APPLICATION NUMBER: 60/095,455
ERRLIER FILING DATE: 1998-08-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 376
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LOCATION: (1012)
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OTHER INFORMATION: n
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OTHER INFORMATION: n
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APPLICATION NUMBER: 60/095,486
FILING DATE: 1998-08-05
APPLICATION NUMBER: 60/096,319
FILING DATE: 1998-08-12
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100.0%; Pr
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; Pred. No. 0.16;
0; Mismatches
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US-09-370-838-27
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                  RESULT 12
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                                                                                                                                          Matches
                                                                                                                                                     Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                    TELEFAX: 202-737-3528 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
                                                                                                                                                                                                                              TOPOLOGY: 1
MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: IL 1 FILING DATE: 11-MAY-1994 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 11-MAY-PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatil
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: MODULATOR OF TNF/NGF SUPERFAMILY RECEPTORS TITLE OF INVENTION: AND SOLUBLE OLIGOMERIC TNF/NGF SUPERFAMILY RECEPTORS NUMBER OF SEQUENCES: 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
                                                                                                                                                                                                                                                                STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                       NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: IL 111,125 FILING DATE: 02-OCT-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Washington
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                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE:
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                                                                     1128 TAAAAAAAAAAAAAAAAAAACTCGAG 1153
                                                                                                      1298 ТАЛАЛАЛАЛАЛАЛАЛАЛАЛСТССЯС 1323
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VENTION: MODULATOR OF TNF/NGF SUPERFAMILY RECEPTORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WALLACH, David
BOLDIN, Mark
                                                                                                                                          Conservative
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100.0%; Pred. No.
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Sequence 27, Application US/09370838 Patent No. 6444425

GENERAL INFORMATION:

APPLICANT: Reed, Steven G. APPLICANT: Lodes, Michael J APPLICANT: Mohamath, Roadoh

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Query Match
Best Local Similarity
Thes 26; Conserv
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; TYPE: DNA
; ORGANISM: Homo sapien
US-09-370-838-27
NAME/KEY:
LOCATION:
US-08-415-593-44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 27
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CURRENT APPLICATION NUMBER: US/09/370,838
CURRENT FILING DATE: 1999-08-09
EARLIER APPLICATION NUMBER: US 09/285,323
EARLIER FILING DATE: 1999-04-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
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                                                                                                                                                   NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                         COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM:
                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,
REFERENCE/DOCKET NUMBER:
                                                                                                                                        SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                   TELEPHONE: 617-861-6240
                                                            OLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ITLE OF INVENTION: Recombinant Pneum
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Lexington
                                                                           STRANDEDNESS:
TOPOLOGY: lir
                                                                                                      TYPE: nucleic acid
                                                                                                                                                                      TELEFAX:
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                                                                                                                        ENGTH:
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                                                                                                                        1352 base pairs
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Quinn, Cheryl L.
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ilarity 100.0%;
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COMPOUNDS FOR THERAPY AND DIAGNOSIS OF
LUNG CANCER AND METHODS FOR THEIR USE
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US-09-149-476-207
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Best Local Similarity
Matches 26; Conserv
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FILING DATE: 1997-03-07
APPLICATION NUMBER: 60/040,333
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APPLICATION NUMBER: 60/047,502
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                                                  APPLICATION NUMBER: 60
FILING DATE: 1997-05-2
                                                                                      APPLICATION NUMBER: 60/047,492 FILING DATE: 1997-05-23
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                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/047,592
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                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 60/047,618
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                FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,613
FILING DATE: 1997-05-23
                                                                                                                          APPLICATION NUMBER: 60/047,587 FILING DATE: 1997-05-23
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APPLICATION NUMBER: 60/047,582
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R APPLICATION NUMBER: 60/04
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APPLICATION NUMBER: 60/0
FILING DATE: 1997-08-22
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APPLICATION NUMBER: 60/056,882
FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/056,637
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APPLICATION NUMBER: 60/056,877
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APPLICATION 1
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FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,315
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APPLICATION NUMBER: 60/056,886
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                                                           NUMBER: 60/056,910
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NUMBER: 60/056,864
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ER APPLICATION NUMBER: 60/047,614
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ER APPLICATION NUMBER: 60/043,578
ER FILING DATE: 1997-04-11
ER APPLICATION NUMBER: 60/043,576
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ER APPLICATION NUMBER: 60/047,501
ER FILING DATE: 1997-05-23
ER APPLICATION NUMBER: 60/043,670
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FILING DATE: 1997-08-22
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; GENERAL INFORMATION:
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EARLIER APPLICATION NUMBER: PCT/US98/04493
EARLIER FILING DATE: 1998-03-06
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ER APPLICATION NUMBER: 60/043,672
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ER FILING DATE: 1997-04-11
ER APPLICATION NUMBER: 60/048,974
ER FILING DATE: 1997-06-06
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ER APPLICATION NUMBER: 60/056,886
ER FILING DATE: 1997-08-22
ER APPLICATION NUMBER: 60/056,893
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R APPLICATION NUMBER: 60/047,595
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APPLICATION NUMBER: 60/047,585
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 FILING DATE: 1997-04-11
APPLICATION NUMBER: 60/043,314
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APPLICATION NUMBER: 60/043,569
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FILING DATE: 1997-05-23
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ER APPLICATION NUMBER: 60/047,587
ER FILING DATE: 1997-05-23
ER APPLICATION NUMBER: 60/047,492
ER APPLICATION NUMBER: 60/047,598
ER APPLICATION NUMBER: 60/047,598
ER FILING DATE: 1997-05-23
ER APPLICATION NUMBER: 60/047,613
ER APPLICATION NUMBER: 60/047,582
ER FILING DATE: 1997-05-23
ER APPLICATION NUMBER: 60/047,596
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ER APPLICATION NUMBER: 60/047,617
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ER APPLICATION NUMBER: 60/047,618
ER FILING DATE: 1997-05-23
ER APPLICATION NUMBER: 60/047,503 APPLICATION NUMBER: 60/047,601 FILING DATE: 1997-05-23 APPLICATION NUMBER: 60/043,580 FILING DATE: 1997-04-11 APPLICATION NUMBER: 60/043,568 FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,592
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,581 APPLICATION NUMBER: 60/047,597
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,502
FILING DATE: 1997-05-23 APPLICATION NUMBER: 60/040,163 FILING DATE: 1997-03-07 APPLICATION NUMBER: 60/047,600 APPLICATION NUMBER: 60/038,621 FILING DATE: 1997-03-07 APPLICATION NUMBER: 60/040,626 FILING DATE: 1997-03-07 APPLICATION NUMBER: 60/040,162 FILING DATE: 1997-03-07 APPLICATION NUMBER: US/09/149,476 FILING DATE: 1998-09-08 APPLICATION NUMBER: 60/040,334 FILING DATE: 1997-03-07 APPLICATION NUMBER: PCT/US98/04493 APPLICATION NUMBER: 60/047,583 al. 186 Human Secreted proteins 60/047,632 60/047,612 60/047,500 60/047,584 60/047,633 60/047,615 60/040,336 60/040,333

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ER APPLICATION NUMBER: 60/056,892
ER FILING DATE: 1997-08-22
ER APPLICATION NUMBER: 60/057,761
ER FILING DATE: 1997-08-22
ER APPLICATION NUMBER: 60/047,595
ER FILING DATE: 1997-05-23
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US-09-205-258-175
Sequence 175, Application US/09205258
PACENT NO. 6525174
GENERAL INFORMATION:
APPLICANT: Young et al.
TITLE OF INVENTION: 207 Human Secreted Proteins
FILE REFERENCE: P2007P1
CURRENT APPLICATION NUMBER: US/09/205,258
CURRENT FILING DATE: 1998-12-04
EARLIER APPLICATION NUMBER: PCT/US98/11422
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ER FILLING DATE: 1997-04-11
ER FILLING DATE: 1997-05-23
ER FILLING DATE: 1997-05-23
ER APPLICATION NUMBER: 60/043,670
ER FILLING DATE: 1997-04-11
ER APPLICATION NUMBER: 60/056,632
ER APPLICATION NUMBER: 60/056,632
ER FILLING DATE: 1997-08-22
ER FILLING DATE: 1997-08-26
ER APPLICATION NUMBER: 60/056,664
ER FILLING DATE: 1997-08-26
ER APPLICATION NUMBER: 60/056,876
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ER FILING DATE: 1997-08-22
ER APPLICATION NUMBER: 60/056,875
ER FILING DATE: 1997-08-22
ER APPLICATION NUMBER: 60/056,862
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FILING DATE: 1997-06-13
APPLICATION NUMBER: 60/061,060
FILING DATE: 1997-10-02
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APPLICATION NUMBER: FILING DATE: 1997-08
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60/056,662

APPLICATION NUMBER: 60/056,630 FILING DATE: 1997-08-22

APPLICATION NUMBER: 60/ FILING DATE: 1997-08-22 APPLICATION NUMBER: 60/

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60/056,893 60/056,889

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NUMBER: 60/056,877 NUMBER: 60/056,886 NUMBER: 60/048,974 NUMBER: 60/043,315 NUMBER: 60/043,672 NUMBER: 60/043,313 NUMBER: 60/043,312

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FILING DATE: 1997-06-06

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ER APPLICATION NUMBER: 60/05
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60/056,845 60/056,631 60/056,864 60/056,910 60/056,874 FILING DATE: 1997-08-22 APPLICATION NUMBER: 60/

NUMBER: 60/056,636 NUMBER: 60/056,911 NUMBER: 60/056,894

APPLICATION

LING DATE: 1997-08-22

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1997-08-22

APPLICATION

NUMBER: 60/056,879 NUMBER: 60/056,888

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FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,917
                                                                          APPLICATION NUMBER: 60/048,962
FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,963
                                            APPLICATION NUMBER: 60/048,877
                                                                                                                                                                                                                                            FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/048,974
                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 60/048,949
                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 1997-06-06
APPLICATION NUMBER: 60/049,373
FILING DATE: 1997-06-06
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APPLICATION NUMBER: 60/048,916
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FILING DATE:
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                                                                                                                                             APPLICATION NUMBER: 60/048,898
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APPLICATION NUMBER: 60/048,970
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; OTHER INFORMATION: US-09-205-258-175
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Patent No. 6166192
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SEQ ID NO 175
LENGTH: 2379
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Matches 26; Conservative 0;
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Best Local :
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EARLIER FILING DATE: 1997-12-18
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
NUMBER OF SEQ ID NOS: 1227
                                                                            TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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NAME/KEY: SITE
LOCATION: (44)
                                                                                                                                                                                                                   OTHER INFORMATION: n equals a,t,g, or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME/KEY: SITE
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                                                                                                                                                                                                                                                                                                                MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                               REFERENCE/DOCKET NUMBER: DF
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OCATION:
                                                                                                                                                                                FILING DATE: 30-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Mandragouras, Amy B.
REGISTRATION NUMBER: 36,20
                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION:
MOLECULE TYPE:
             STRANDEDNESS:
TOPOLOGY: lin
                                               TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: Boston
STATE: Massac
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                                                             ENGTH:
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                                                             3066 base pairs
                                                                                            (617)227-5941
(617)0: 1:
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                             single
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                                                                                                                                                                                36,207
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Pred. No.
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0.14;
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; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (92)..(2482)
US-09-900-236-1
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; LOCATION:
US-09-086-912-1
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US-09-900-236-1
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US-09-203-453-1
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Best Local Similarity
Matches 26; Conserv
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Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 26; Conservative 0; Mismatches
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                                                                                                                           SEQ ID NO 1
LENGTH: 3066
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Patent No. 6426411
                                                                                                                                                            APPLICANT: ĀdeĪmant, Guilaume
TITLE OF INVENTION: PGC-1, A NOVEL BROWN FAT PPAR{SYMBOL 103 \f "Symbol"}
TITLE OF INVENTION: COACTIVATOR
TITLE OF INVENTION: COACTIVATOR
PILE REFERENCE: DFN-023CP
CURRENT FILING DATE: 2001-10-09
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/203,453
PRIOR FILING DATE: EARLIER FILING DATE: 1998-12-01
PRIOR FILING DATE: EARLIER FILING DATE: 1998-12-01
PRIOR PHORAPHICATION NUMBER: EARLIER APPLICATION NUMBER: 60/048,107
PRIOR FILING DATE: EARLIER FILING DATE: 1997-05-30
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PATENTIN Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Spiegelman, Bruce M.; Puigserver, TITLE OF INVENTION: PGC-1, A NOVEL BROWN FAT FILE REFERENCE: DFN-023CP CURRENT APPLICATION NUMBER: US/09/203,453 CURRENT FILING DATE: 1998-12-01 EARLIER APPLICATION NUMBER: 09/086,912 EARLIER FILING DATE: 1998-05-29 EARLIER APPLICATION NUMBER: 60/048,107
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ORGANISM: Mus musculus
FEATURE:
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LOCATION: (92)...(2482)
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92..2482
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Pred. No.
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0.14;
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                                                                                                RESULT 22
US-08-928-941D-30
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Best Local Similarity
Matches 26; Conserv
                                                                 Sequence 30, Application US/08928941D Patent No. 6180763
                                                                                                                                                                                                                           Matches
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Best Local Similarity
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INFORMATION FOR SEQ ID NO:
                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: CDN
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo #
                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 3767 base pairs
TYPE: nucleic acid
CTBANTECRISCS: 40:11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Hirai, APPLICANT: Sherr,
   APPLICANT: Hirai, PAPPLICANT: Sherr, CTITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION: TELEPHONE: 201-487-5800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS: double TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1340-1-002 N CIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3009 TAAAAAAAAAAAAAAAAAAACTCGAG 3034
                                                                                                                                                               3742 TAAAAAAAAAAAAAAAAAACTCGAG 3767
                                                                                                                                                                                    1298 TAAAAAAAAAAAAAAAAAAACTCGAG 1323
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: New Jersey
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                                                                                                                                                                                                                           Conservative
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IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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Hiroshi
Charles
: CYCLIN-D BINDING FACTOR, AND USES
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: CYCLIN-D BINDING FACTOR, AND USES
: THEREOF
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                                                                                                                                                                                                                                        Score 26; ; Pred. No.
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                                                                                                                                                                                                                                          DB 3;
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0.14;
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THEREOF

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RESULT 23
US-09-280-590A-28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity 92.3 Matches 24; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: RI
HYPOTHETICAL: NO
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/928,941D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE/DOCKET NUMBER: 13
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
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NAME: Jackson Esq., Davi
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CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
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                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3742 UAAAAAAAAAAAAAAAACUCGAG 3767
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1298 ТАЛАЛАЛАЛАЛАЛАЛАЛАСТССЯС 1323
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: CYCLIN-D BINDING FACTOR, AND USES
                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Hirai, Hiroshi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07601
          COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                                                           CITY: Hackensack
                                                                                                                                                                                          STREET: 411 Hackensack Ave, Continental Plaza, 4th
                                                                                                                                         STATE: New Jersey
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                                                                                                      ZIP: 07601
                                                                                                                                                                                                         ADDRESSEE: David A. Jackson,
                                                                                                                        COUNTRY: USA
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411 Hackensack Ave, Continental Plaza,
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                                                                                                                                                                           Floor
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92.3%;
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Pred. No. 0.13;
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; ORGANISM: Homo sapiens ; SEQUENCE DESCRIPTION: SEQ ID NO: 28: US-09-280-590A-28
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TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 3767 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEQ ID NO: 28:
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                                                                                                                         ATTORNEY/AGENT INFORMATION:
NAME: Jackson Edg., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1340-1-002 N CP2
TELECOMMUNICATION INFORMATION:
TELETONE: 201,487-500
                                                                                                                                                                                                                                       SOFTWARE: PatentIn Release #1.0, VGCURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/280,590A
FILING DATE: 29-Mar-1999
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HYPOTHETICAL: NO ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 3767 base pairs
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TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
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ADDRESSEE: David A. Jackson,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: CYCLIN-D BINDING FACTOR,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
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STRANDEDNESS: double
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REFERENCE/DOCKET NUMBER: 1340-1-002 N CP2
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CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US/09/280,590A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Floor
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Continental Plaza, 4th
                                                                                                                                                                                                                                                                                                                                   Version #1.30
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ORGANISM: Homo sapiens;
SEQUENCE DESCRIPTION: SEQ ID NO:
US-09-280-590A-30
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Best Local S
Matches 24
           SOPTWARE: PASTSEQ for Windows
SEQ ID NO 2
ENGTH: 38
TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                 GENERAL INFORMATION:
APPLICANT: Blumberg, Bruce
APPLICANT: Blumberg, Bruce
TITLE OF INVENTION: High Throughput Funct:
TITLE OF INVENTION: CDNAs
FILE REFERENCE: P-UC 3662
CURRENT APPLICATION NUMBER: US/09/454,704A
CURRENT FILING DATE: 1999-12-03
NUMBER OF SEQ ID NOS: 14
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APPLICANT: King, Fro
APPLICANT: Harris, I
APPLICANT: Hu, Erdir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/023,905A CURRENT FILING DATE: 1998-02-13 PRIOR APPLICATION NUMBER: US 60/038,191 PRIOR FILING DATE: 1997-02-14 NUMBER OF SEQ ID NOS: 39 SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                   equence 2, Application US/09454704A atent No. 6274321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Spiegelman, Bruce
APPLICANT: Chan, Joanne
TITLE OP INVENTION: Differentiation Enhancing Factors and Uses
TITLE OP INVENTION: Therefor
FILE REFERENCE: DFN-021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE: NAME/KEY: CDS
LOCATION: (351)...(3803)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Danio rerio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ENGTH: 4382
EATURE:
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les 24; Conser
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HYPOTHETICAL: NO
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                4303 TAAAAAAAAAAAAAAAAAAAAACTCGAG 4328
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Spiegelman, Bruce
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, Frederick J.
is, David F.
                                                                                                                                                                                              High Throughput Functional Screening of
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                                                                                       Windows Version 4.0
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Pred. No. 0.13;
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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US-09-454-704A-14
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US-09-454-704A-12
                                                                                                                ; OTHER INFORMATION: CDNA US-09-454-704A-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/454,704A
CURRENT FILING DATE: 1999-12-03
NUMBER OF SEQ ID NOS: 14
SOPTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 12
                                                      Best Loc
Matches
                                                                                                                                                                                                                                                                                                                     Sequence 14, Application US/09454704A Patent No. 6274321
GENERRAL INFORMATION:
APPLICANT: Blumberg, Bruce
                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/454,704A
CURRENT FILING DATE: 1999-12-03
NUMBER OF SEQ ID NOS: 14
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 14
LENGTH: 42
TYPE: DNA
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Best Local
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Best Local
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TITLE OF INVENTION: High TITLE OF INVENTION: CDNA8
TITLE OF INVENTION: CDNA8
                                                                                                                                                                                                                                                                                         TITLE OF INVENTION:
                                                                                                                                                                                                                                                                             FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 38
TYPE: DNA
                                                                                                                                                         ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
                                                                                                                                             FEATURE:
                                                                      Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 100.0%; Ines 25; Conservative 0;
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                  1299 AAAAAAAAAAAAAAAAAACTCGAG 1323
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25; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                            2 AAAAAAAAAAAAAAAAAACTCGAG 26
                                                                       Similarity
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ENTION: High Throughput Functional
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Conservative (
                                                        Conservative
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High Throughput Functional Screening
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                                                                    Score 25;
Pred. No.
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Pred. No.
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US-08-341-568-3
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                                                                                                                                                                                                     Sequence 3, Application US/08341568 Patent No. 5661021
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GENERAL INFORMATION:
                                                                                                                                                                                          GENERAL
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SEQUENCE CHARACTERISTICS:
LENGTH: 247 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                      HYPOTHETICAL: NO ANTI-SENSE: NO FRAGMENT TYPE: ORIGINAL SOURCE:
                                        APPLICANT: Saloheimo, Anu
APPLICANT: Marjatta, Ranua
TITLE OF INVENTION: Mannanase enzymes, genes coding for them,
TITLE OF INVENTION: methods for isolating the genes, and methods.
TITLE OF INVENTION: pulps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 435
PRIOR APPLICATION DATA: 60/006,838
APPLICATION NUMBER: 60/006,838
FILING DATE: 16-NOV-1995
ATTORNEY/AGENT INFORMATION:
NAME: Remenick, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/594,031
FILING DATE: 30-JAN-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: ME
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                         APPLICANT:
                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 0A TELECOMMUNICATION INFORMATION: TELEPHONE: 202-639-7700
                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM: MEDIUM TYPE: Diskette
                 ORRESPONDENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGIE TYPE: CL
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SOFTWARE: FastSE
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CITY: Washington
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                                                                                                                                                                                                                                                                                                                              1299 ААААААААААААААААААСТСБАБ 1323
                                                                                                                                                                                                                                                                                                 138 AAAAAAAAAAAAAAAAAAACTCGAG 162
                                                                                                                                                                                          INFORMATION:
                                OF SEQUENCES:
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25; Conserv
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1299 Pennsylvania Avenue, N.W.
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Viikari, Liisa
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Birch, Stewart, Kolasch and Birch
                 ADDRESS:
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                                pulps
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Pred. No.
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0.47;
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                                                           and methods for bleaching lig
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                    Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO:
        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/08/911,020
                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Birch, St
STREET: PO Box 747
                                                                                                                                                                                                                                                                TITLE OF INVENTION:
TITLE OF INVENTION:
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ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS LENGTH: 289 base pair:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 361
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/341,568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
ODERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                   APPLICANT:
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STRAIN: Q
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FILING DATE:
                                                                                                                                COUNTRY: US
ZIP: 22040-0747
                                                                                                                                                                  CITY: Falls Church
STATE: VA
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CITY: Falls Church
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Murphy Jr, Gerald M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
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    Application US/08911020
    5854047

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Marjatta, Ranua
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Viikari, Liisa
Penttila, Merja
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13-AUG-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
                                                                                                                                                                                                                                                              Mannanase enzymes, genes coding for them, methods for isolating the genes, and meth lignocellulosic pulps
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00.0%; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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0.46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 289;
                                                                                                                                                                                                                                                                                   and methods for bleaching
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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ATTORNEY/AGENT INFORMATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER:

US 08/341,568

CLASSIFICATION:

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RESULT 32
US-09-091-725-28
; Sequence 28, Application US/09091725
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         CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/091,725
FILING DATE: 23-DEC-1996
CLASSIFICATION NUMBER: US/09/091,725
FILING DATE: 23-DEC-1996
CLASSIFICATION DATA:
APPLICATION NUMBER: EP 95203620.0
FILING DATE: 22-DEC-1995
APPLICATION NUMBER: EP 96200943.7
FILING DATE: 11-APR-1996
ATTORNEY/AGENT INFORMATION:
REGISTRATION NUMBER: 35,492
INFORMATION POR SEQ ID NO: 28:
SEQUENCE CHARACTERISTICS:
LENGTH: 307 base pairs
TYPE: nucleic acid
GTRANDERNESS: deuble
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 1.9%; Score 25; DB Best Local Similarity 100.0%; Pred. No. 0.4 Matches 25; Conservative 0; Mismatches
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TELEX: 248345
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Murphy Jr, Gerald M
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 365-262P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES: 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AIGINAL
ORGANISM: 111
ORGANISM: 0M9414
                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: United ZIP: 20006-1888
                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 2000 Peni
CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 289 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: (703) 205-8050
STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Morrison & Foerster llp
STREET: 2000 Pennsylvania Avenue, N.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1299 АЛАЛАЛАЛАЛАЛАЛАЛАЛАЛАСТССЯС 1323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              265 AAAAAAAAAAAAAAAAAACTCGAG 289
                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                           United States of America
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double
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Improved methods for transforming Phaffia and recombinant DNA for use therein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>ب</u>
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                                                                        US-08-341-568-5
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Patent No. 5
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Best Local :
Query Match
Best Local Similarity
Matches 25; Conserv
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                                                                                                                                                                                                         TELEX: 248345
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 319 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Penttila, Merja
APPLICANT: Salohelmo, Anu
APPLICANT: Marjatta, Ranua
APPLICANT: Marjatta, Ranua
TITLE OF INVENTION: Mannanase enzymes, genes coding for them,
TITLE OF INVENTION: methods for isolating the genes, and meth
TITLE OF INVENTION: pulps
                                                                                                      MOLECULE TYPE: ORIGINAL SOURCE: ORGANISM: Tric
                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOCTWARE: PATENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/341,568
FILING DATE: 22-NOV-1994
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr, Gerald M
REGISTRATION NUMBER: 28,9
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                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
TELEFAX: (703) 205-8050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITY: Falls Church
STATE: VA
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LOCATION: 3..227
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                                                                                                                                                                                             TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION:
                                                                                                                                                                             STRANDEDNESS: single
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                                                                                                                                                                                                                319 base pairs
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                                                                                       QM9414
1.9%; Score 25; DB 1; ilarity 100.0%; Pred. No. 0.46; Conservative 0; Mismatches
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Viikari, Liisa
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                                                                                                                                             CDNA
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                                   Length 319;
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Gaps

1299 АДАДАДАДАДАДАДАДАДАДСТССТВ 1323

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RESULT 35
US-08-946-026-35
; Sequence 35, Applic
; Patent No. 6034218
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US-08-911-020-5
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                                                                                                                                                                                                             Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/911,020
FILING DATE: 13-AUG-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/341,568
FILING DATE: 22-NOV-1994
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                    TELEX: 248345
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 319 base pairs
                                                                                                                                                                                                                                                                               MOLECULE TYPE: o
ORIGINAL SOURCE:
ORGANISM: Tric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Murphy Jr, Gerald M
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 365-262P
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZIP: 22040-0747
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: Birch, Stewart, Kolasch and Birch
STREET: PO Box 747
CITY: Falls Church
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Marjatta, Ranua
TITUE OF INVENTION: Mannanase enzymes, genes coding for them,
TITUE OF INVENTION: methods for isolating the genes, and methods for bleaching
TITUE OF INVENTION: lignocellulosic pulps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
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                                                                                                                                                                                             Local
                                                                                                                                                                                                                                                                  STRAIN:
                                                                                                                                                                                                                                                                                                                                                    STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY:
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                                                                                                                         295 AAAAAAAAAAAAAAAAAACTCGAG 319
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                                                                                                                                                                                             Similarity
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                Application US/08946026
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                                                                                                                                                                           Conservative
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                                                                                                                                                                                                                                                                                  Trichoderma reesei
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                                                                                                                                                                                                                                                                                                                                     linear
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                                                                                                                                                                                             Score 25; DB 2;
Pred. No. 0.46;
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                                                                                                                                                                                                             Length 319;
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                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: ST. GEO
APPLICANT: ROMMENS
APPLICANT: FRASER,
                                                                                                                                                                                                                                                                                                                                                                                                                         Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 39,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/946,026
FILING DATE: 07-0CT-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.424
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
              COUNTRY: USA
ZIP: 07090-1497
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (206) 682-60: INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
LENGTH: 333 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS.
ADDRESSEE: LERNER, DAVID, LIT-
STREET: 600 SOUTH AVENUE WEST
                                                                                                                                                                                                                                                                                                    APPLICANT: FRASER, PAUL E
TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
TITLE OF INVENTION: TO ALZHEIMER'S DISEASE AND USES THEREFOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Mitcham, Jennifer L.

TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND IMMUNODIAGNOSIS OF PROSTATE CANCER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                              STATE: NJ
                                                                                                                                                                                                 STREET: 600 SOU
CITY: WESTFIELD
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les 25; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY:
APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                               ROMMENS,
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Twardzik, Daniel
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                                                                                                                                                                                                                                                                                                                                                               GEORGE-HYSLOP, PETER H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Steven G.
                                                                                                                                                                                                                                           DAVID, LITTENBERG, KRUMHOLZ & MENTLIK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Daniel R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.9%; Score 25; DB
100.0%; Pred. No. 0.
1ve 0; Mismatches
US/08/888,077A
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PILING DATE: 03-JUL-1997
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 08/592,541
FILING DATE: 26-JAN-1996
ATTORNEY/AGENT INFORMATION:
NAME: PALISI, THOMAS M
REGISTRATION NUMBER: 36,629
REFERENCE/DOCKET NUMBER: SCHERING 3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 654-5000
TELEPAX: (908) 654-5000
INFORMATION POR SEQ ID NO: 37:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
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Best Local Similarity
Matches 25; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tent No.
                                                                                                                                                                                                                                                                                                        COUNTRY: USA
ZIP: 07090-1497
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 340 base pairs
                                                                                                                                                                                                                                                      SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: PALISI, INCREMENTATION NUMBER: 36,629
REFERENCE/DOCKET NUMBER: SCHEDECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED ITLE OF INVENTION: TO ALZHEIMER'S DISEASE AND USES THEREFOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: misc_feature
LOCATION: 1..340
OTHER INFORMATION: /note= "PS1Ex10/24-1"
                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: WESTFIELD
                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS:
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0 SOUTH AVENUE WEST
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03-JUL-1997
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100.0%; Pro
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0.46;
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; LOCATION: 1.360
; OTHER INFRMATION: /note= "PS1LY2HEx10-17-1"
US-08-888-077A-37
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Patent No. 6
                                                                     Query Match 1.9%; Score 25; DB Best Local Similarity 100.0%; Pred. No. 0. Matches 25; Conservative 0; Mismatches
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Best Local Similarity
                                                                                                                                                                                                                                   TELEFAX: (206) 682-603
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/08/946,026
FILING DATE: 07-CCT-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.424C1
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: TWARGZIK, DALLE ... APPLICANT: Mitcham, Jennifer L. APPLICANT: Mitcham, Jennifer L. COMPOUNDS AND METHODS FOR IMMUNOTHERAPY TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SEQUENCES:
                                                                                                                                                                 LENGTH: 375 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Seattle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                               ELEPHONE:
                                  1299 АЛАЛАЛАЛАЛАЛАЛАЛАЛАЛСТССЯС 1323
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 AAAAAAAAAAAAAAAAAACTCGAG 375
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             701 Fifth Avenue
                                                                                         DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 360;
                                                                                                        Length 375;
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                                                                       Gaps
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RESULT 39 US-09-220-132-128/c ; Sequence 128, Application US/09220132

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OTHER INFORMATION: n = A,T,C
US-09-220-132-128
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SEQ ID NO 128
LENGTH: 376
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Best Local Similarity
Matches 25; Conserv
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CURRENT FILING DATE: 1998-12-23
FRIOR APPLICATION NUMBER: US 60/079,303
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: US 60/068,821
PRIOR FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 191
                                                                                                                             APPLICATION NUMBER: US/08/946,026
FILING DATE: 07-OCT-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.424
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TITLE OF INVENTION:
FILE REFERENCE: 073
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                                                     TELEFAX: (206) 682-6031 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Homo sapiens FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Reed, Steven G.
APPLICANT: Dillon, Davin C
                                                                                          TELECOMMUNICATION INFORMATION: TELEPHONE: (206) 622-4900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
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                 ENGTH:
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377 base pairs ucleic acid
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100.0%; Pr/
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Pred. No. 0.45;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 164
SEQ IT NO 184
TYPE: DNA
ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Lodes, Michael J.
APPLICANT: Lodes, Michael J.
APPLICANT: Mohamath, Roadoh
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS OF
TITLE OF INVENTION: LUNG CANCER AND METHODS FOR THEIR USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 25; Conserv
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 92,
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CURRENT APPLICATION NUMBER: US/09/370,838
CURRENT FILING DATE: 1999-08-09
EARLIER APPLICATION NUMBER: US 09/285,323
EARLIER FILING DATE: 1999-04-02
NUMBER OF SEQ ID NOS: 289
                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 1
                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: NOVEL ECTOPARASITE SALIVA PROTEINS TITLE OF INVENTION: AND APPARATUS TO COLLECT SUCH PROTEINS
                                                                                                                                                                                                     STREET: 1700 Line
CITY: Denver
STATE: Colorado
                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
ATTORNEY/AGENT INFORMATION:
                APPLICATION NUMBER: US/08/630,822A FILING DATE: 11-APR-1996 CLASSIFICATION: 435
                                                                                                                                                                        COUNTRY: U.S.A. ZIP: 80203
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                                                                                                                                                                                                                                                                ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 371 AAAAAAAAAAAAAAAAACTCGAG 395
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                                                                                                                                                                                                                                                                                                                                      HUNTER, SHIR
                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/08630822A
                                                                                                                                                                                                                                              1700 Lincoln Street, Suite 3500
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                                                                                                                                                                                                                                                                  Sheridan Ross P.C.
                                                                                                                                                                                                                                                                                                                                                                                         GLENN R.
                                                                                                                                                                                                                                                                                                                                                                   SHIRLEY WU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.9%; Score 25; DB 4; 100.0%; Pred. No. 0.45;
                                                                                                                                                                                                                                                                                                                                    LS, LYNDA NOVEL ECTOPARASITE SALIVA PROTEINS
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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CONNELL, GARY J

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; LENGTH: 490 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: aingle
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
US-09-005-069-92
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US-08-630-822A-92
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
Query Match 1.9%; Score 25; DB 2; Best Local Similarity 100.0%; Pred. No. 0.43; Matches 25; Conservative 0; Mismatches
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Patent No. 5932470
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INFORMATION FOR SEQ ID NO: 1
                                                                                                                                                                                                                                                                                                                                                                             TELEFAX: (303) 863-0223
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION NUMBER: US/09/005,069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/630,822
FILING DATE: 11-APR-1996
ATTORNEY/AGENT INFORMATION:
ANALYSIS OF THE PRIOR OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
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REFERENCE/POCKET NUMBER: 7
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 863-9700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: FRANK, GLENN R.
RPPLICANT: HUNTER, SHIRLEY WU
APPLICANT: HUNTER, SHIRLEY WU
APPLICANT: WALLENFELS, LYNDA
TITLE OF INVENTION: NOVEL ECTOPARASITE SALIVA PROTEINS
TITLE OF INVENTION: AND APPARATUS TO COLLECT SUCH PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME: CONNELL, GARY J.
REGISTRATION NUMBER: 32,
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
nes 25; Conserva
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TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STREET: 1700
CITY: Denver
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              462 AAAAAAAAAAAAAAAAAAAACTCGAG 486
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                       Length 490;
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   Indels
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                                                                                                                                                                                                                                   RESULT 45
US-09-004-730A-41
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                                                                                                                                                    APPLICANT: Weber,
                                                                                                                                                                                             Sequence 41, Application US/09004730A Patent No. 6485968
                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
APPLICANT: Frank, Glenn
APPLICANT: Wallenfels, Lynda
TITLE OF INVENTION: MOVEL ECTOPARASITE SALIVA PROTEINS AND APPARATUS TO COLLECT SUCH
FILE REFERENCE: 2618-17-C5-PUS-1
CURRENT APPLICATION NUMBER: US/99/004,730A
CURRENT FILING DATE: 1998-01-08
                                                                                                               APPLICANT:
APPLICANT:
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INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/09/171,156A
FILING DATE: 04-Mar-1999
CLASSIFICATION: <UNKnown>
ATTORNEY_AGENT_INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
MOLECULE TYPE: cDNA
SEQUENCE DESCRIPTION: SEQ ID NO: 41:
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TITLE OF INVENTION: NOVEL ECTOPARASITE SALIVA PROTEINS
APPARATUS TO COLLECT SUCH PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
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REGISTRATION NUMBER: 32,020
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ADDRESSEE: SHERIDAN ROSS P.C.
STREET: 1560 BROADWAY, SUITE 1200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 490 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE: CO
                                                                                                               Wu Hunter, SI
Sim, Gek-Kee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRANDEDNESS: single
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                                                                                                                                                        Weber, Eric
                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                    Shirley
                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                   1.9%;
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APPLICANT: Reed, Steven G.
APPLICANT: Lodes, Michael J.
APPLICANT: Mohamath, Roadoh
APPLICANT: Mohamath, Roadoh
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS OF
TITLE OF INVENTION: LUNG CANCENDER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.475C1
CURRENT APPLICATION NUMBER: US/09/370,838
CURRENT APPLICATION NUMBER: US 09/285,323
EARLIER APPLICATION NUMBER: US 09/285,323
EARLIER FILING DATE: 1999-04-02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; LENGTH: 490
TYPE: DNA
; ORGANISM: Ctenocephalides felis
US-09-004-730A-41
                                                                                                                                                                                                                        Sequence 263, Application US/09370838 Patent No. 6444425
                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 41
LENGTH: 490
TYPE: DNA
ORGANISM: Ctenocephalides felis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT FILING DATE: 1997-10
PRIOR FILING DATE: 1997-10
PRIOR FILING DATE: 1997-10
PRIOR FILING DATE: 1997-10
PRIOR FILING DATE: 1997-10
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Best Local Similarity
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SEQ ID NO 41
                                                                                                                                                                                                         GENERAL INFORMATION:
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NUMBER OF SEQ ID NOS:
SOFTWARE: FastSEQ for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            atent No.
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                                                                                                                                                                                                                                                                                                                                                                                            Local
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                                                                                                                                                                                                                                                                                                                    462 AAAAAAAAAAAAAAAACTCGAG
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                                                                                                                                                                                                                                                                                                                                                                                               Similarity
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100.0%; Pr
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   Windows Version 3.0
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Pred. No.
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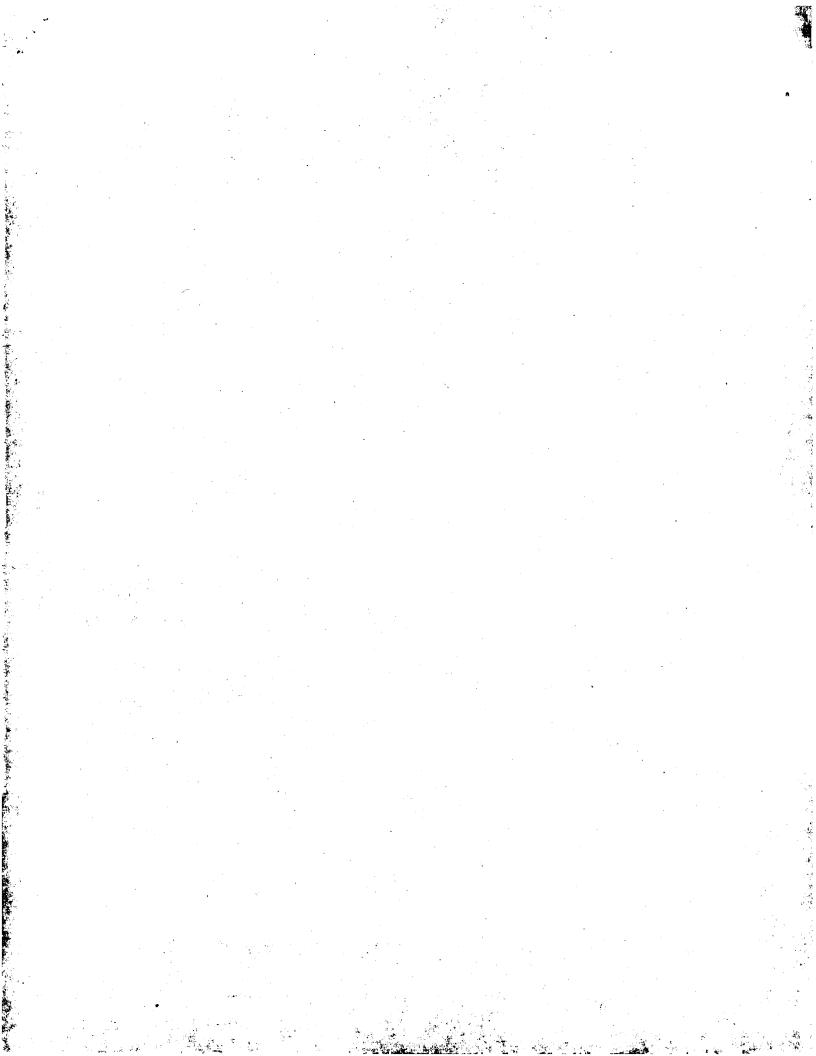
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                                                                                                                        US-08-341-568-1
                                                            Matches
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GENERAL INFORMATION:
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                                                                           Best Local
                                                                                        Query Match
                                                                                                                                                                                                                              TELEX: 248345
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 536, base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr, Gerald M
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 365-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 205-8000
TELEFAX: (703) 205-8050
                                                                                                                                      MOLECULE TYPE: c
ORIGINAL SOURCE:
ORGANISM: Tric
STRAIN: QM9414
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOCTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: FILING DATE: 22-NOV CLASSIFICATION: 435
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nes 25; Conserv
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                                                                           Similarity
                                AAAAAAAAAAAAAAAAAACTCGAG 1323
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Marjatta, Ranua
VENTION: Mannanase enzymes, genes coding for them,
VENTION: methods for isolating the genes, and meth
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                                                                                                                                                                                                     linear
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100.0%; Pred. No.
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Pred. No.
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0.43;
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RESULT 49
US-08-911-020-1
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US-09-370-838-242
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Best Local Similarity
Matches 25; Conserv
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INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 536 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
                                                                        Sequence 242, Application US/09370838
Patent No. 6444425
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Lodes, Michael J.
APPLICANT: Mohamath, Roadoh
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Silka-aho, Matti
APPLICANT: Vilkari, Liisa
APPLICANT: Penttila, Merja
APPLICANT: Saloheimo, Anu
APPLICANT: Saloheimo, Anu
APPLICANT: Marjatta, Ranua
TITLE OF INVENTION: Methods for isolating the genes, and methods for bleaching
TITLE OF INVENTION: lignocellulosic pulps
TITLE OF INVENTION: 11gnocellulosic pulps
TITLE OF SEQUENCES: 7
                                                                                                                                                                                                                                                                                                                                          ORIGINAL SOURCE:
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MEDIUM TYPE: Floppy disk
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STREET: PO Box 747
CITY: Falls Church
                                                                                                                                                                                                                                                                                                                             ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELCHONE: (703) 205-8050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: US
ZIP: 22040-0747
                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS:
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100.0%; Pred. No. 0.4
/ative 0; Mismatches
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                                                                                                                                                                 SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 242
LENGTH: 556
TYPE: DNA
ORGANISM: Homo Bapiens
                                                                          Matches
                                                                                                             Query Match
                                                                                             Best Local
                                                                                                                                                                                                                                                                 TITLE OF INVENTION: LUNG CANCER AND METHODS FOR THEIR USE FILE REFERENCE: 210121.475C1 CURRENT APPLICATION NUMBER: US/09/370,838 CURRENT FILING DATE: 1999-08-09 EARLIER APPLICATION NUMBER: US 09/285,323 EARLIER FILING DATE: 1999-04-02 NUMBER OF SEQ ID NOS: 289
                                    1299 AAAAAAAAAAAAAAAAAAAACTCGAG 1323
532 AAAAAAAAAAAAAAAAACTCGAG 556
                                                                          25;
                                                                                             Similarity
                                                                          Conservative
                                                                                             100.0%;
                                                                                           1.9%; Score 25; DB 4; Length 556; 100.0%; Pred. No. 0.43;
                                                                        0; Mismatches
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Search completed: January 28, 2004, 17:27:05 Job time : 115 secs



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Maximum
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Perfect score:
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seq length: 2000000000
  Query
Match
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Gapop 60.0 , Gapext
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1323
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: /cgn2_6/ptodata/2/pubpna/USO6_RUB PUB.seq:*
: /cgn2_6/ptodata/2/pubpna/USO6_PUBCOMB.seq:*
: /cgn2_6/ptodata/2/pubpna/USO6_PUBCOMB.seq:*
: /cgn2_6/ptodata/2/pubpna/USO7_NEW PUB.seq:*
: /cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
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: /cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
: /cgn2_6/ptodata/2/pubpna/USO8_PUBCOMB.seq:*
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1049
11049
11108
1198
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708
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1 US-09-918-995-22177

US-09-809-391-58

3 US-09-802-171-58

2 US-10-264-237-619

1 US-09-776-724A-60

1 US-09-776-724A-60

1 US-09-925-300-83

3 US-09-914-353-20112

US-09-914-353-20112

US-09-916-995-24814

US-09-746-869-465

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 :e 22177, A
:e 58, Appl
:e 58, Appl
:e 619, Appl
:e 609, Appl
:e 109, Appl
:e 20112, A
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- 465, Appl
:e 465, Appl
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US-09-918-995-23-69

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US-09-918-995-23-4

US-09-918-93-125-629

US
Sequence 305, Appl Sequence 17, Appl Sequence 17, Appl Sequence 17, Appl Sequence 1976, Appl Sequence 1976, Appl Sequence 1187, Appl Sequence 1187, Appl Sequence 15629, Sequence 15629, Sequence 15629, Sequence 17, Appl Sequence 17, Appl Sequence 27, Appl Sequence 16, Appl Sequence 175, Appl Se
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Sequence 840,
Sequence 305,
Sequence 54,
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Sequence 22177, Application US/09918995

Publication No. US20030073623A1

GENERAL INFORMATION:
APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
FILE REFERENCE: 20411-756

CURRENT APPLICATION NUMBER: US/09/918,995

CURRENT FILING DATE: 2001-07-30

PRIOR APPLICATION NUMBER: US/09/235,076

PRIOR APPLICATION NUMBER: US/09/235,076

PRIOR FILING DATE: 1999-01-20

NUMBER OF SEQ ID NOS: 38054

SOFTWARE: FASTSEQ for Windows Version 3.0

SEQ ID NO 22177

IEMMORPH: S38
                                                                                                                                                                                                                                                                                                         US-09-809-391-58
; Sequence 58, Application US/09809391
; Publication No. US20030049618A1
; GENERAL INFORMATION:
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                                                                                                                               SEQ ID NO 58
LENGTH: 1049
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Best Local :
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ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1) ... (538)
OTHER INFORMATION: n = A,T,C o
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TITLE OF INVENTION: 186 Human Secreted proteins
FILE REPERENCE: PE7002P2
CURRENT APPLICATION NUMBER: US/09/809,391
CURRENT FILING DATE: 2001-03-16
                                                                                                                                                                  Prior application data removed - consult PALM or file wrapper NUMBER OF SEQ ID NOS: 761 SOFTWARE: PatentIn Ver. 2.0
                                                                                          TYPE: DNA ORGANISM: Homo sapiens
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2.2%; Score 29; DB nilarity 100.0%; Pred. No. 0.0 Conservative 0; Mismatches
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0 US-09-783-590-1257

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US-09-925-299-501

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US-09-925-299-501

US-09-833-790-14

US-09-833-790-14

US-09-833-790-26
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US-09-833-790-301
US-09-854-133-631
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Pred. No.
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DB 11; Length 538; 0.0057;
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                                  Length 1049;
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Sequence 24, Appl
Sequence 26, Appl
Sequence 12129, A
Sequence 301, App
Sequence 631, App
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Sequence 4790, Ap
Sequence 1257, Ap
Sequence 2629, Ap
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR ELLING DATE: 2001-06-18
PRIOR ELLING DATE: 2001-03-16
PRIOR FILING DATE: 2001-03-16
PRIOR ADDITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: 186 Human Secreted proteins FILE REFERENCE: PZ002P2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 09/149,476
PRIOR FILING DATE: 1998-09-08
PRIOR APPLICATION NUMBER: PCT/US98/04493
PRIOR FILING DATE: 1998-03-06
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PRIOR FILING DATE: 1998-03-06
PRIOR APPLICATION NUMBER: 60/040,162
PRIOR FILING DATE: 1997-03-07
PRIOR APPLICATION NUMBER: 60/040,333
PRIOR FILING DATE: 1997-03-07
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CURRENT FILING DATE: 2001-06-18
                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 60/047,592
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APPLICATION NUMBER: 60/
FILING DATE: 1997-05-23
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APPLICATION NUMBER: 60/047,581
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FILING DATE: 1997-03-07
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APPLICATION NUMBER: 60/038,621
FILING DATE: 1997-03-07
APPLICATION NUMBER: 60/040,626
FILING DATE: 1997-03-07
                   FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,582
FILING DATE: 1997-05-23
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                                                                       APPLICATION NUMBER: 60/047,613
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DR FILLING DATE: 1997-05-23
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DR FILLING DATE: 1997-05-23
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DR FILLING DATE: 1997-04-11
DR APPLICATION NUMBER: 60/05
DR FILLING DATE: 1997-04-12
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DR FILLING DATE: 1997-08-22
                                                                                                                                         R FILING DATE: 1997-06-06
R APPLICATION NUMBER: 90/57,650
R FILING DATE: 1997-09-05
R APPLICATION NUMBER: 60/056,884
R APPLICATION NUMBER: 60/057,669
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R FILING DATE: 1997-09-05
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APPLICATION NUMBER: 60/047,585
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FILING DATE: 1997-08-22
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APPLICATION NUMBER: 60/056,908
FILING DATE: 1997-08-22
APPLICATION NUMBER: 60/048,964
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APPLICATION NUMBER: 60/047,588
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                                                                     Score 29; DB
Pred. No. 0.0
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OR APPLICATION NUMBER: 60/043,311
OR APPLICATION NUMBER: 60/043,313
OR FILING DATE: 1997-04-11
OR APPLICATION NUMBER: 60/043,313
OR APPLICATION NUMBER: 60/043,672
OR FILING DATE: 1997-04-11
OR APPLICATION NUMBER: 60/048,974

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OR FILING DATE: 1997-08-22
OR APPLICATION NUMBER: 60/056,877
OR APPLICATION NUMBER: 60/056,893
OR APPLICATION NUMBER: 60/056,893
OR FILING DATE: 1997-08-22
OR APPLICATION NUMBER: 60/056,630
OR FILING DATE: 1997-08-22
OR APPLICATION NUMBER: 60/056,630
OR FILING DATE: 1997-08-22
OR APPLICATION NUMBER: 60/056,878
OR APPLICATION NUMBER: 60/056,878
OR APPLICATION NUMBER: 60/056,878
OR APPLICATION NUMBER: 60/056,872
OR FILING DATE: 1997-08-22
OR FILING DATE: 1997-08-22
OR APPLICATION NUMBER: 60/056,882
OR APPLICATION NUMBER: 60/056,882
OR APPLICATION NUMBER: 60/056,893
OR APPLICATION NUMBER: 60/056,893
OR FILING DATE: 1997-08-22
OR APPLICATION NUMBER: 60/056,893
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US-09-776-724A-60
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT FILING DATE: 2001-02-06
PRIOR APPLICATION NUMBER: 60/180,909
PRIOR FILING DATE: 2000-02-08
PRIOR APPLICATION NUMBER: 09/669,688
PRIOR FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: 09/229,982
PRIOR FILING DATE: 1999-01-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILING DATE: 2000-05-19
NUMBER OF SEQ ID NOS: 2876
SOFTWARE: Patentin Ver. 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: PA131P1
CURRENT APPLICATION NUMBER: US/10/264,237
CURRENT FILING DATE: 2002-10-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: US 60/205,515 PRIOR FILING DATE: 2000-05-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: PCT/US01/16450 PRIOR FILING DATE: 2001-05-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Birse et al.
NITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: misc feature
LOCATION: (1101)...(1101)
OTHER INFORMATION: n equals a,t,g, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ITLE OF INVENTION: 64 Human Secreted Proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NERAL INFORMATION:
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                                                                                                                                                                                                                                                                     DR APPLICATION NUMBER: 60/052,872

BR FILLING DATE: 1997-07-16

BR PELICATION NUMBER: 60/052,871

BR FILLING DATE: 1997-07-16

BR APPLICATION NUMBER: 60/052,874

BR FILING DATE: 1997-07-16
                                                                                                                                PR FILING DATE: 1997-07-16

RAPPLICATION NUMBER: 60/052,873

REFILING DATE: 1997-07-16

RAPPLICATION NUMBER: 60/052,870

REFILING DATE: 1997-07-16

RAPPLICATION NUMBER: 60/052,875

RAPPLICATION NUMBER: 60/052,875

RAPPLICATION NUMBER: 60/052,875
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                                        APPLICATION NUMBER: 60/053,440 FILLING DATE: 1997-07-22 APPLICATION NUMBER: 60/053,441 FILLING DATE: 1997-07-22
                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 60/052,661 FILING DATE: 1997-07-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: PCT/US98/14613 FILING DATE: 1998-07-15
APPLICATION NUMBER: 60/053,442 FILING DATE: 1997-07-22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/09/776,724A
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b. US20040009491A1
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                                                                     US-10-102-806-109
                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-102-806-109/c
                                                                                SEQ ID NO 109
LENGTH: 743
TYPE: DNA
ORGANISM: Homo sapiens
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Publication No.
Matches
              Query Match
Best Local
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Best Local Similarity
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                                                                                                                                                       PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 846
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/10/102,806
CURRENT FILING DATE: 2002-03-22
CURRENT FILING LOATE: 09/925,298
PRIOR APPLICATION NUMBER: 09/925,298
PRIOR FILING DATE: 2001-08-10
                                                                                                                                                                                                                                                                                                                                   APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA103P1C1
                                                                                                                                                                                                         PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: PCT/US00/05881
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APPLICATION NUMBER: 60/055,952
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28;
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                  Similarity
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o. US20030054421A1
Conservative
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                  100.0%;
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                  2.1%; Score 28; DB 15; 00.0%; Pred. No. 0.017;
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0; Mismatches
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Pred. No.
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                                                                                                                                                                                                                                                               PRIOR FILING DATE: 2000-05-25
PRIOR APPLICATION NUMBER: US 60/211,940
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: US 60/216,820
PRIOR FILING DATE: 2000-07-07
PRIOR APPLICATION NUMBER: US 60/220,661
PRIOR APPLICATION NUMBER: US 60/257,672
PRIOR APPLICATION NUMBER: US 60/257,672
PRIOR FILING DATE: 2000-12-21
PRIOR FILING DATE: 2000-12-21
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SEQ ID NO 83
LENGTH: 2150
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Patent No. US20020151681A1
GENERAL INFORMATION:
APPLICANT: Craig Rosen,
APPLICANT: Steve Ruben
                                                                                                                                                                                               SOPTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 20112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo sapiens -09-925-300-83
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PRIOR APPLICATION NUMBER: PCT/US00/05988
PRIOR PILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: US 60/191,031
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: US 60/207,124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/814,353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND TITLE OF INVENTION: THERAPY OF OVARIAN CANCER FILE REFERENCE: MRI-006B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 1890
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ORGANISM: Homo BapienB
FRATURE:
NAME/KEY: misc_feature
LOCATION: 1, 2, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792,
LOCATION: 3793, 3794
LOCATION: 3793, 3794
OTHER INFORMATION: n = A,T,C or G
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                                                                                                                                                      TYPE: DNA
                                                                                                                                                                            ENGTH:
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100.0%; Pred. No. 0.
ative 0; Mismatches
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0.018;
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TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OB: TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES; FILE REFERENCE: 20411-756; CURRENT APPLICATION NUMBER: US/09/918,995; CURRENT FILING DATE: 2001-07-30; PRIOR APPLICATION NUMBER: US/09/235,076; PRIOR FILING DATE: 1999-01-20; NUMBER OF SEQ ID NOS: 38054; SOFTWARE: FastSEQ for Windows Version 3.0; SEQ ID NO 24814
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Best Local Similarity
                                                                                                                                                                                                                         SOFTWARE: PatentIn
SEQ ID NO 465
                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                              Sequence 465, Application US/09764869
Patent No. US20020061521A1
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                                                                                                                                                                                                                                                                                         APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PC007
CURRENT APPLICATION NUMBER: US/09/764,869
CURRENT FILING DATE: 2001-01-17
                                                                                                                                                                                                                                           Prior application data removed - refer to PALM or file wrapper NUMBER OF SEQ ID NOS: 2442 SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Hyseq, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
                              LOCATION: (5)
OTHER INFORMATION:
NAME/KEY: SITE
                                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
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LOCATION: (1)...(480)
LOCATION: (671)
OTHER INFORMATION:
                                                                                                                    NAME/KEY: SITE LOCATION: (1)
                                                                                    NAME/KEY: SITE
                                                                                                    OTHER INFORMATION: n equals a,t,g,
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n equals a,t,g, or c
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100.0%; Pred. No.
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0.048;
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Matches Query Match Best Local

27;

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Mismatches

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Indels

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Gaps

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Similarity

2.0%;

Score 27; Pred. No.

DB 9; 0.049;

Length 708;

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RESULT 12
US-10-091-504-465/c
; Sequence 465, Application US/10091504
; Publication No. US20030059908A1
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                                                                                                                                                                                                                            OTHER INFORMATION: n equals a,t,g, or US-10-227-577-465
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                                                                                                                                                                            Best
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SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 465
                                                                                                                                                               Matches
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Sequence 465, Application US/10227577
                                                                                                                                                                                            Query Match
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CURRENT APPLICATION NUMBER: US/10/227,577
CURRENT FILING DATE: 2002-08-26
                                                                                                                                                                                                                                                                                                     LOCATION: (5)
OTHER INFORMATION: n equals
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                                                                                                                                                                                                                                                             NAME/KEY: misc_feature
LOCATION: (671)
                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH: 708
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
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APPLICATION NUMBER: 60/217,487
APPLICATION STITUS DATE: 2000-07-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2000-01-31
APPLICATION NUMBER: 60/180,628
FILING DATE: 2000-02-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: 2001-01-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/220,963
FILING DATE: 2000-07-26
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                                                                                                                       1297 GTAAAAAAAAAAAAAAAAAAACTCGAG 1323
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27; Conserv
                                                                                               GTAAAAAAAAAAAAAAAAACTCGAG
                                                                                                                                                               Conservative
                                                                                                                                                        100.0%; **
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                                                                                                                                                                            Score 27;
Pred. No.
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                                                                                                                                                               0
                                                                                                                                                                                            Length 708;
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NAME/KEY: misc_feature; LOCATION: 1, 2, 3, 812, 818, 891, 897, 899, 902, 945, 946, 947, 948, LOCATION: 949, 950, 951, 952; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-19712
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                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: US 60/207,124
PRIOR FILING DATE: 2000-05-25
PRIOR APPLICATION NUMBER: US 60/211,940
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: US 60/216,820
PRIOR APPLICATION NUMBER: US 60/220,661
PRIOR FILING DATE: 2000-07-07
PRIOR FILING DATE: 2000-07-25
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TITLE OF INVENTION: Nucleic Acids, Proteins, and Anti-
FILE REFERENCE: PC007C1
CURRENT APPLICATION NUMBER: US/10/091,504
CURRENT FILING DATE: 2002-03-07
NUMBER OF SEQ ID NOS: 2442
Prior Application removed - See File Wrapper or Palm
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 465
                                                                                                                                                                                                    SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 19712
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                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 60/257,672
PRIOR FILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 22037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Lillie, James
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
FILE REFERENCE: MRI-006B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: US 60/191,031 PRIOR FILING DATE: 2000-03-21
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NAME/KEY: misc_feature

LOCATION: (1)

OTHER INFORMATION: n equals a,t,g,

NAME/KEY: misc_feature

LOCATION: (5)
                                                                                                                                                              TYPE: DNA
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                                                                                                                  FEATURE:
                                                                                                                                     ORGANISM: Homo sapiens
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LOCATION: (671)
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27; Conserv
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RESULT 15
US-09-854-133-149
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US-09-738-973-149
                                                         US-09-854-133-149
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SEQ ID NO 149
LENGTH: 1061
TYPE: DNA
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Query Match
Best Local Similarity
                                                                                                                                SOPTWARE: PastSEQ for Windows Version 3.0 SEQ ID NO 149
                                                                                                                                                                                                                                                                                                                                                                                        Sequence 149, A Publication No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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                                                                                                                                                                 APPLICANT: Benson, Darin R.
APPLICANT: Secrist, Heather
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF
FILE REPERENCE: 210121.475C10
CURRENT APPLICATION NUMBER: US/09/854,133
CURRENT FILING DATE: 2001-05-11
NUMBER OF SEQ ID NOS: 735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 149, Application US/09738973
Patent No. US20020110563A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/738,973
CURRENT FILING DATE: 2000-12-14
NUMBER OF SEQ ID NOS: 587
                                                                                                                                                                                                                                                                                                                 APPLICANT: Henderson, Robert A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER PILE REFERENCE: 210121.475C9
                                                                         TYPE: DNA
ORGANISM: Homo sapien
                                                                                                             ENGTH: 1061
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Local Similarity 100.0%;
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Kalos, Michael D.
                                                                                                                                                                                                                                                                                                                                                                                          Application US/09854133 o. US20020183499A1
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Secrist, Heather
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Lodes, Michael J.
Fling, Steven P.
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Elliot, Mark
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   2.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 27; DB 10; Length 1061; pred. No. 0.051;
   Score 27;
Pred. No.
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   DB 10;
0.051;
                                                                                                                                                                                                                                            OF LUNG CANCER
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                     Length 1061;
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; Sequence 149, Application US/10144649A
; Publication No. US20030118599A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 27; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 840, Application US/10264237 Publication No. US20040009491A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                     SOFTWARE: PatentIn Ver. 3.1
SQ ID NO 840
LENGTH: 1427
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 149
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Algate, Paul A.
APPLICANT: MCNeill, Patricia D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF
FILE REFERENCE: 210121.475C11
                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/10/264,237
CURRENT FILING DATE: 2002-10-04
PRIOR APPLICATION NUMBER: PCT/US01/16450
PRIOR FILING DATE: 2001-05-18
PRIOR APPLICATION NUMBER: US 60/205,515
PRIOR APPLICATION NUMBER: US 60/205,515
PRIOR FILING DATE: 2000-05-19
NUMBER OF SEQ ID NOS: 2876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Birse et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PA131P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 749
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APPLICANT: Fan, Liqun
                                                                                                                                                                                             FEATURE:
NAME/KEY: misc_feature
NAME/KEY: (378)...(378)
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TYPE: DNA
ORGANISM: Homo sapien
                                 NAME/KEY: misc feature
LOCATION: (1282)..(1282)
OTHER INFORMATION: n equals
                                                                                                          NAME/KEY: misc feature
LOCATION: (1256)...(1256)
OTHER INFORMATION: n equals
                                                                                                                                                                                       LOCATION: (378)..(378)
OTHER INFORMATION: n equals
                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens
NAME/KEY: misc_feature
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ilarity 100.0%;
Conservative (
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CURRENT APPLICATION NUMBER: US/09/925,301
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05882
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1694
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 305
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; ORGANISM: Homo sapiens
US-09-925-301-305
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                                                                                                                   PRIOR APPLICATION NUMBER: 09/229,982
PRIOR FILING DATE: 1999-01-14
PRIOR APPLICATION NUMBER: PCT/US98/14613
PRIOR FILING DATE: 1998-07-15
PRIOR APPLICATION NUMBER: 60/052,661
PRIOR APPLICATION NUMBER: 60/052,872
PRIOR APPLICATION NUMBER: 60/052,872
PRIOR APPLICATION NUMBER: 60/052,872
PRIOR FILING DATE: 1997-07-16
PRIOR FILING DATE: 1997-07-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 54, Application US/09776724A Publication No. US20030050455A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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Best Local (
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Patent No. US200
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Best Local :
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                                                                                                                                                                                                                                                                                     CURRENT FILING DATE: 2001-02-06
PRIOR APPLICATION NUMBER: 60/180,909
PRIOR FILING DATE: 2000-02-08
PRIOR APPLICATION NUMBER: 09/669,688
PRIOR FILING DATE: 2000-09-26
                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/776,724A
CURRENT FILING DATE: 2001-02-06
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                                                                                                                                                                                                                                                                                                                                                                                                                        FILE REFERENCE: PZ011
                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Rosen et al.
TITLE OF INVENTION: 64 Human Secreted Proteins
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OTHER INFORMATION: n equals a,t,g, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ENGTH: 1553
                                                        APPLICATION NUMBER: 60/052,871 FILING DATE: 1997-07-16 APPLICATION NUMBER: 60/052,874
APPLICATION NUMBER: 60/052,873 FILING DATE: 1997-07-16
                                       FILING DATE: 1997-07-16
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27; Conservative (
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20020052308A1
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Pred. No.
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Pred. No.
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o. 0.052;
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TITLE OF INVENTION:

210121.475C9

COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF LUNG CANCER

APPLICANT:

Mannion, Jane Kalos, Michael D. Benson, Darin R. Elliot, Mark

Yoseph

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                                                                                                                                                                                             RESULT 20
                                                                                                                                                                                                                                                                                                                         Best
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn Ver.
SEQ ID NO 54
LENGTH: 309
                                                                                                            GENERAL INFO
                                                                                                                                                             Sequence 17,
                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                Patent No.
                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS: 294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: SITE
LOCATION: (301)
OTHER INFORMATION: n equals a,t,g,
NAME/KEY: SITE
LOCATION: (305)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
                                                                                                                                                                                                                                                                                                                         Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 60/055,683
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE:
                                                                                                                             INFORMATION
                                                                                                                                                                                                                                            240 TAAAAAAAAAAAAAAAAAAACTCGAG 265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LING DATE:
                                                                                                                                                                                                                                                                                                          l Similarity
26; Conser
                                                                                                                                                US20020110563A1
Mohamath, Raodoh
Algate, Paul A.
Secrist, Heather
Indirias, Carol Yo
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                                                          Henderson, Robert
Lodes, Michael J.
Fling, Steven P.
                                                                                                                                                             Application US/09738973
                                                                                                                Reed, Steven G.
                                                                                                                                                                                                                                                                                                          Conservative (
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; TYPE: DNA
; ORGANISM: Homo sapien
US-09-854-133-17
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US-09-738-973-17
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, TYPE: DNA
; ORGANISM: Homo sapiens
US-10-144-649A-17
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SOFTWARE: FastSEQ for
SEQ ID NO 17
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                                                                           SEQ ID NO 17
                                                                                                                                                                                                                                                                                                                              Sequence 17, Application US/10144649A Publication No. US20030118599A1 GENERAL INFORMATION:
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TITLE OF INVENTION: COMPOSITIONS AND METHODS FO
TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS
FILE REFERENCE: 210121.475C10
CURRENT APPLICATION NUMBER: US/09/854,133
CURRENT FILING DATE: 2001-05-11
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APPLICANT: Algate, Paul A.
APPLICANT: MCNeill, Patricia D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/738,973
CURRENT FILING DATE: 2000-12-14
NUMBER OF SEQ ID NOS: 587
                                                                                                                                                                                                                                                                   APPLICANT: Lodes, Michael J.
APPLICANT: Wang, Tongtong
APPLICANT: Fan, Liqun
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APPLICANT: Mohamath, Raodoh
APPLICANT: Henderson, Rober
                                                                                           CURRENT FILING DATE: 2002-08-21
NUMBER OF SEQ ID NOS: 749
SOFTWARE: FASTSEQ for Windows Version 3.0
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                                                                                                                                                      FILE REFERENCE: 210121.475C11
CURRENT APPLICATION NUMBER: US/10/144,649A
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les 26; Conserv
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Conservative (
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Pred. No. 0.13;
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0.13;
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PRIOR FILING DATE: 1994-11-21
NUMBER OF SEQ ID NOS: 12485
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 7936
                                                                                                                                                                                                                                                                                       NAME/KEY: misc feature
LOCATION: (248)
OTHER INFORMATION: n equals a,
NAME/KEY: misc feature
LOCATION: (256)
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Best Local Similarity
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CURRENT FILING DATE: 2000-02-15
PRIOR APPLICATION NUMBER: 08/420,856
PRIOR FILING DATE: 1995-04-12
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                                                 LOCATION: (328)
OTHER INFORMATION: n equals
NAME/KEY: misc feature
                                                                                                                                                                    NAME/KEY: misc feature
LOCATION: (283)
OTHER INFORMATION: n equals
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                                                                                                                                                                                                                                             OTHER INFORMATION: n equals a,t,g, or NAME/KEY: misc feature LOCATION: (262)
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NAME/KEY: misc feature
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NAME/KEY: misc feature
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OTHER INFORMATION: n equals NAME/KEY: misc feature
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OTHER INFORMATION: n equals a,t,g,
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OTHER INFORMATION: n
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b. US20020110850A1
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0.13;
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SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 19475
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Best Local
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TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
FILE REFERENCE: 20411-756
CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
PRIOR FILING DATE: 1999-01-20
              FILE REFERENCE: 20411-756
CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
NUMBER OF SEQ ID NOS: 38054
                                                                                                                  APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
                                                                                                                                                                              ENERAL INFORMATION:
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LOCATION: (1)...(448)
OTHER INFORMATION: n = A,T,C or
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OTHER INFORMATION: n equals a,t,g,
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FastSEQ for Windows Version 3.0
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Pred. No.
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FILE REFERENCE: 2041-756
CURRENT APPLICATION NUMBER: US/09/918,995.
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
NUMBER OF SEQ ID NOS: 38054
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 19781
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                                                                                                                                                                                                                                                                           Sequence 19781, Application US/09918995 Publication No. US20030073623A1 GENERAL INFORMATION:
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SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 23066
LENGTH: 502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Hyseq, Inc.
APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
FILE REFERENCE: 20411-756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 23066, Application US/09918995 Publication No. US20030073623A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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                                                                                                                                                                                                         APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME/KEY: misc feature
LOCATION: (1)...(502)
OTHER INFORMATION: n = A,T,C or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Homo sapiens
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LOCATION: (1)...(475)
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                                      TYPE: DNA
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                 ORGANISM: Homo sapiens
EATURE:
                                                      ENGTH:
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Pred. No.
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; Sequence 134, Application US/09764887; Patent No. US20020042096A1; GENERAL INFORMATION:
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; LOCATION: (1)...(513)
; OTHER INFORMATION: n = A,T,C
US-09-918-995-19781
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NAME/KEY: SITE
LOCATION: (506)
OTHER INFORMATION: n e
IS-09-764-887-134
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Best Local S
Matches 26
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TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PA113

CURRENT APPLICATION NUMBER: US/09/764,887

CURRENT FILING DATE: 2001-01-17

Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 658

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 134

LENGTH: 519

TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                            Sequence 134, Applic Publication No. US20 GENERAL INFORMATION:
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Best Local
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                                                    PRIOR
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                                                                                                                                                                                                                                                                                                                                             FILE REFERENCE: PA113C1
                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Rosen et al
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Homo sapiens
                                                PR FILING DATE: 2000-06-28

PRILING DATE: 2000-07-11

PR APPLICATION NUMBER: 60/217,487

PR APPLICATION NUMBER: 60/225,758

PR FILING DATE: 2000-08-14

PR APPLICATION NUMBER: 60/220,963

PR FILING DATE: 2000-07-26
                                                                                                                                                                                                                                               APPLICATION NUMBER: 09/764,887
FILING DATE: 2001-01-17
APPLICATION NUMBER: 60/179,065
                                                                                                                                                                            FILING DATE: 2000-01-31
APPLICATION NUMBER: 60/180,628
FILING DATE: 2000-02-04
APPLICATION NUMBER: 60/214,886
APPLICATION NUMBER: 60/217,496 FILING DATE: 2000-07-11 APPLICATION NUMBER: 60/225,447
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26; Conservative
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5. US20030077602A1
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APPLICATION NUMBER: 60/236,327
FILING DATE: 2000-09-29
APPLICATION NUMBER: 60/241,785
                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 60/229,343
FILING DATE: 2000-09-01
APPLICATION NUMBER: 60/229,345
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APPLICATION NUMBER: 60/224,519
FILING DATE: 2000-08-14
APPLICATION NUMBER: 60/220,964
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APPLICATION NUMBER: 60/237,039
PILING DATE: 2000-10-02
APPLICATION NUMBER: 60/237,038
FILING DATE: 2000-10-02
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APPLICATION NUMBER: 60/231,413
FILING DATE: 2000-09-08
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APPLICATION NUMBER: 60/251,856
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APPLICATION NUMBER:
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APPLICATION NUMBER: 60/241,809
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APPLICATION NUMBER: 60/236,369
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APPLICATION NUMBER: 60/225,270
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FILING DATE: 2000-08-14
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FILING DATE: 2000-09-01
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APPLICATION NUMBER: 60/251,868
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                                                                                                                                                                                                NUMBER: 60/229,513
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FILING DATE: 2000-11-17
APPLICATION NUMBER: 60/249,297
FILING DATE: 2000-11-17
APPLICATION NUMBER: 60/232,400
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APPLICATION NUMBER: 60/249,264
FILING DATE: 2000-11-17
APPLICATION NUMBER: 60/249,214
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FILING DATE: 2000-11-17
APPLICATION NUMBER: 60/249,207
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FILING DATE: 2000-08-22
APPLICATION NUMBER: 60/225,214
FILING DATE: 2000-08-14
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FILING DATE: 2000-11-08
APPLICATION NUMBER: 60/246,532
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APPLICATION NUMBER: 60/236,802
FILING DATE: 2000-10-02
APPLICATION NUMBER: 60/237,037
APPLICATION NUMBER: 60/231,242 FILING DATE: 2000-09-08
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APPLICATION NUMBER: 60/249,217
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APPLICATION NUMBER: 60/249,244
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APPLICATION NUMBER: 60/249,245
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FILING DATE: 2000-06-30
APPLICATION NUMBER: 60/225,266
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APPLICATION NUMBER: 60/225,213
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FILING DATE: 2000-11-17
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APPLICATION NUMBER: 60/241,787
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APPLICATION NUMBER: 60/249,218
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APPLICATION NUMBER: 60/225,759
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ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: (587).. (587)
OTHER INFORMATION: n equals a,t,g,
US-10-106-698-1187
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US-10-106-698-1187
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Best Local S
Matches 26
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SEQ ID NO 1187
LENGTH: 591
        Matches
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Publication No.
                                     Query Match
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                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/10/106,698
CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR FILING DATE: 2000-09-28
PRIOR PRIOR PRIOR OF THE PRIOR PRIOR PRIOR NUMBER: US 60/157,137
PRIOR FILING DATE: 1999-09-29
PRIOR FILING DATE: 1999-09-29
                                                                                                                                                                                                                                                                                                                                                                                                      FILE REFERENCE: PA005P1
                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Ruben et al.
TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptides
                                                                                                                                                                            LENGTH: 59
       Local Similarity
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R APPLICATION N
R FILING DATE:
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APPLICATION NUMBER: 60/241,826
FILING DATE: 2000-10-20
APPLICATION NUMBER: 60/241,786
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APPLICATION NUMBER: 60/241,808
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APPLICATION NUMBER: 60/232,401
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FILING DATE: 2000-09-14
APPLICATION NUMBER: 60/232,399
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APPLICATION N
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. US20030109690A1
        Conservative
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NUMBER: 60/231,243
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Pred. No.
                      Score 26;
Pred. No.
        Mismatches
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                        DB 15;
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1298 TAAAAAAAAAAAAAAAAAAACTCGAG 1323

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US-09-832-129-16
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                                                                                   Query Match
Best Local Similarity
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Best Local Similarity
                                                                     Matches
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PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US 60/157,137
PRIOR FILING DATE: 1999-09-29
PRIOR APPLICATION NUMBER: US 60/163,280
PRIOR FILING DATE: 1999-11-03
PRIOR FILING DATE: 1999-11-03
PRIOR FILING DATE: 1999-11-03
                                                                                                                                      TYPE: DNA
ORGANISM: Homo sapiens
-09-832-129-16
                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/172,411 PRIOR FILING DATE: 1999-12-17
                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/832,129
CURRENT FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: PCT/US00/28664
PRIOR FILING DATE: 2000-10-17
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CURRENT FILING DATE: 2002-03-27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Ruben et al.
TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptid
FILE REFERENCE: PA005P1
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OTHER INFORMATION: n equals a,t,g, or
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                                  1298 TAAAAAAAAAAAAAAAAAACTCGAG 1323
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Pred. No. 0.14;
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Pred. No. 0.14;
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US-09-966-881-26/c
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Best Local Similarity 100.
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PRIOR FILING DATE: 1998-08-04
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LOCATION: (94
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                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: Zeneca Ag
STREET: 1800 Concord
                ATTORNEY/AGENT INFORMATION:
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 Hohenschutz,
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FILE REFERENCE: CNN-012US
CURRENT APPLICATION NUMBER: US/10/342,224
CURRENT FILING DATE: 2003-01-13
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TITLE OF INVENTION: Genes Involved in Tolerance to Environmental Stress
                                                                                                                                                                                                                                                                                                   SOFTWARE: PATENTIN Release #1.0,
CURRENT APPLICATION DATA;
APPLICATION NUMBER: US/09/966,881
FILING DATE: 28-Sep-2001
CLASSIFICATION: <UKnown>
PRIOR APPLICATION DATA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: Genetic control Of Fruit Ripening
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                                                                                                                                                APPLICATION NUMBER: US/09/242,860 FILING DATE: 29-Mar-1999 APPLICATION NUMBER: GB 9618862.8 FILING DATE: 10-SEP-1996 APPLICATION NUMBER: GB 9708366.1 FILING DATE: 25-APR-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                  APPLICATION NUMBER: PCT/GB97/02424 FILING DATE: 08-SEP-1997
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Pike
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SEE 50183/UST
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Version #1.25
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INFORMATION FOR SEQ ID NO:

TELEPHONE:

(302) 886-1699

TELECOMMUNICATION INFORMATION:

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                                                                                                                                                                                                                                                                                                                    ; TYPE: DNA
; ORGANISM: Human
US-10-027-632-155629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                     US-10-027-632-155629
                                                                                                                      RESULT 36
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           Sequence 15529, Application US/10027632
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 155629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 155629, Application US/10027632 Publication No. US20030204075A9
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CURRENT FILING DATE: 2002-04-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQ ID NOS: 325720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILE REFERENCE: 108827.129
                                                                                                                                                                                                                                                                                                                                                                         ENGTH: 825
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US 60/193,483
FILING DATE: 2000-03-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US 60/218,006 FILING DATE: 2000-07-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US 60/146,002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 60/185,218 FILING DATE: 2000-02-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US 60/198,676
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 60/167,363
FILING DATE: 1999-11-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1298 TAAAAAAAAAAAAAAAAAAAACTCGAG 1323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CIONE: U-U125
SEQUENCE DESCRIPTION: SEQ ID NO: 26:
                                                                                                                                                                                                            1292 CTCAAGTAAAAAAAAAAAAAAAAAAAAA 1317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 1999-09-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 60/156,358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: unknown MOLECULE TYPE: cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                           CTCAAGTAAAAAAAAAAAAAAAAA 102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: nucleic acid
STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                    Application US/10027632
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Pred. No.
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Pred. No.
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RESULT 38 US-09-872-523-4

Sequence 4, Application US/09872523 Patent No. US20020137906A1 GENERAL INFORMATION:

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                                                                     Matches
                                                                                      Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                          PRIOR FILING DATE: 2000-05-19
NUMBER OF SEQ ID NOS: 2876
                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: PCT/US01/16450
PRIOR FILING DATE: 2001-05-18
PRIOR APPLICATION NUMBER: US 60/205,515
                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/10/264,237 CURRENT FILING DATE: 2002-10-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Birse et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PA131P1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQ ID NOS:
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PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
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PRIOR FILING DATE: 2000-04-20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
                                                                                                                                                                           ORGANISM: Homo sapiens FEATURE:
NAME/KEY: misc_feature LOCATION: (35)...(35)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Human
                                                                                                                                                            LOCATION: (35)...(35)
OTHER INFORMATION: n equals a,t,g,
                                                                                                                                                                                                                                                     TYPE: DNA
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nes 26; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1999-09-28
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1051 TAAAAAAAAAAAAAAAAAAACTCGAG 1076
                                 1298 ТАЛАЛАЛАЛАЛАЛАЛАЛАСТСБАБ 1323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          77
                                                                     26;
                                                                                                                                                                                                                                                                       1076
                                                                     Conservative
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, 100.0%; Pred. No.
                                                                                      2.0%;
                                                                     0; Mismatches
                                                                                      Score 26;
Pred. No.
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0.14;
                                                                                      0.15;
                                                                                                           DB 12;
                                                                                                         Length 1076;
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                                                                       Gaps
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US-09:872-523-48
; Sequence 48, Application U;
; Patent No. US20020137906A1
; GENERAL INFORMATION:
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Best Local Similarity
Warehes 26; Conserve
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; TYPE: DNA
; ORGANIZM: Caenorhabditis elegans
US-09-872-523-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; TYPE: DNA
; ORGANISM: Caenorhabditis elegans
US-09-872-523-48
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Best Local S
Matches 26
                                                                                     GENERAL INFORMATION:
APPLICANT: Lee, John
APPLICANT: Thompson, Pamela
APPLICANT: Lillie, James
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METI
TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION,
TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
FILE REFERENCE: MRI-006B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 78
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 48
LENGTH: 1108
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                                                                                                                                                                                                                                                                              Sequence 21392, Application US/09814353 Publication No. US20030165831A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: HOTVIEZ, H. Robert
APPLICANT: Davison, Ewa M.
APPLICANT: Lu, Xiaowei
TITLE OF INVENTION: A Tumor Suppressor Pathway in C. Elegans
FILE REFERENCE: 01997/536002
CURRENT APPLICATION UNMBER: US/09/872,523
CURRENT APPLICATION ENGAGE
PRIOR APPLICATION NUMBER: US 60/208,802
PRIOR APPLICATION NUMBER: US 60/208,802
PRIOR FILING DATE: 2000-06-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: LU, X180Wei
TITLE OF INVENTION: A Tumor Suppressor Pathway in C. Elegans
FILE REFERENCE: 01997/536002
CURRENT APPLICATION NUMBER: US/09/872,523
CURRENT FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: US 60/208,802
PRIOR PLING DATE: 2000-06-02
NUMBER OF SEQ ID NOS: 78
CURRENT APPLICATION NUMBER: US/09/814,353
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: US 60/191,031
PRIOR FILING DATE: 2000-03-21
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les 26; Conservative 0;
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100.0%; Pred. No. 0.15;
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PRIOR APPLICATION NUMBER: US 60/216,820
PRIOR FILING DATE: 2000-07-07
PRIOR APPLICATION NUMBER: US 60/220,661
PRIOR FILING DATE: 2000-07-25
PRIOR APPLICATION NUMBER: US 60/257,672
PRIOR APPLICATION NUMBER: US 60/257,672
PRIOR FILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 22037
NUMBER OF SEG ID NOS: 22037
SOFTWARE: FASESEQ for Windows Version 4.0
SEQ ID NO 21392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; LOCATION: 1140, 1141, 1142, 1143
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-21392
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                                                                            ; ORGANISM: Homo sapien US-09-738-973-27
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                                                                                                                                SOFTWARE: Fas
SEQ ID NO 27
LENGTH: 1331
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Best Local Similarity
Matches 26; Conserv
Matches
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                    Query Match
Best Local (
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APPLICANT:
APPLICANT:
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APPLICANT:
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PRIOR FILING DATE: 2000-05-25
PRIOR APPLICATION NUMBER: US 60/211,940
PRIOR FILING DATE: 2000-06-15
                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/738,973
CURRENT FILING DATE: 2000-12-14
NUMBER OF SEQ ID NOS: 587
                                                                                                                                                                                                                                                  TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF FILE REFERENCE: 210121.475C9
                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
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NAME/KEY: misc_feature
NAME/KEY: misc_feature
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NAME/KEY: misc_feature
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LOCATION: 249, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110,
LOCATION: 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120
LOCATION: 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130
LOCATION: 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139
OTHER INFORMATION: n = A,T,C or G
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                                                                                                                  TYPE: DNA
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    26;
                      Similarity
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                                                                                                                                                                        FastSEQ for Windows Version 3.0
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Kalos, Michael D.
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Lodes, Michael J.
Fling, Steven P.
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Indirias, Carol Yoseph
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Elliot, Mark
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ilarity 100.0%;
Conservative (
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                                      2.0%;
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                    Score 26;
Pred. No.
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    Mismatches
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                    DB 10;
0.15;
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                                        Length 1331;
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1298 TAAAAAAAAAAAAAAAAAACTCGAG 1323

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RESULT 44
US-10-231-417-129
Sequence 129, Application US/10231417
Publication No. US20030176681A1
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; Sequence 27, Application US/09854133
; Publication US20020183499A1
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                                                                                                                                                                                                                                                                                          ; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-144-649A-27
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; ORGANISM: Homo sapien
US-09-854-133-27
GENERAL INFORMATION:
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Best Local Similarity 100.0%; P
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TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.475C10
CURRENT APPLICATION NUMBER: US/09/854,133
CURRENT FILING DATE: 2001-05-11
                                                                                                                                                                                                                                                                                                                                                                                       CURRENT FILING DATE: 2002-08-21
NUMBER OF SEQ ID NOS: 749
SOFTWARE: FastSEQ for Windows Version 3.0
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CURRENT FILING DATE: 2002-08-21
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APPLICANT: Fan, Liqun
APPLICANT: Algate, Paul A.
APPLICANT: McNeill, Patricia D.
APPLICANT: McNeill, Patricia D.
APPLICANT: MCNEILON: COMPOSITIONS AND METHODS FOR
TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.475C11
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SOFTWARE: FastSEQ for Windows Version 3.0
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APPLICANT: Mohamath, Raodoh
APPLICANT: Henderson, Rober
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Pred. No.
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TITLE OF INVENTION: 148 Human Secreted Proteins
FILE REFERENCE: PZO19P1
CURRENT APPLICATION NUMBER: US/10/231,417
CURRENT FILING DATE: 2002-08-30
PRIOR APPLICATION NUMBER: US/09/296,622
PRIOR FILING DATE: 1999-04-23
NUMBER OF SEQ ID NOS: 619
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 129
LENGTH: 1334
TYPE: DNA
ORGANISM: Homo sapiens
US-10-231-417-129
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US-09-925-299-82
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Best Local Similarity
Matches 26; Conserv
NUMBER OF SEQ ID NOS: 1556
SOFTWARE: PatentIn Ver. 2.
SEQ ID NO 82
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                                                     FILE REFERENCE: PA102
CURRENT APPLICATION NUMBER: US/09/925,299
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05883
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
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CURRENT FILLING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05883
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILLING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1556
                                                                                                                                                                                                       TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
                                                                                                                                                                                                                              APPLICANT: Rosen et al.
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TITLE OF INVENTION: Nucleic Acids, Proteins
FILE REFERENCE: PA102
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l00.0%; Pred. No. 0.15;
lve 0; Mismatches
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, ORGANISM: Homo sapiens
US-09-925-299-82
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US-10-106-698-2096
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Matches
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SOFTWARE: PatentIn Ver. 3.0
SEQ ID NO 2096
LENGTH: 1350
                                                                                                                                                                                                                                           Prior application data removed - consult PALM or file wrapper NUMBER OF SEQ ID NOS: 761
SOFTWARE: PAtentin Ver. 2.0
SEQ ID NO 207
LENGTH: 1354
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Best Local Similarity 100.0%;
Matches 26; Conservative 0
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CURRENT FILING DATE: 2002-03-27
PRIOR APPLICATION NUMBER: PCT/US00/26524
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US 60/157,137
PRIOR FILING DATE: 1999-09-29
                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/09/809,391
CURRENT FILING DATE: 2001-03-16
                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Ruben et al.
TITLE OF INVENTION: 186 Human Secreted proteins
FILE REFERENCE: PZ002P2
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                                                                            FEATURE:
NAME/KEY: SITE
LOCATION: (465)
OTHER INFORMATION: n equals a,t,g,
NAME/KEY: SITE
NAME/KEY: SITE
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                                                                                                                                                                                                                            TYPE: DNA
                                                             OTHER INFORMATION: n equals a,t,g,
                         NAME/KEY: SITE
LOCATION: (1344)
OTHER INFORMATION: n equals a,t,g, or c
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5. US20030049618A1
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100.0%; Pr
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CURRENT APPLICATION NUMBER: US/09/882,171
CURRENT FILING DATE: 2001-06-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION NUMBER: 09/809,391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: 186 Human Secreted proteins
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OTHER INFORMATION:
NAME/KEY: SITE
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OTHER INFORMATION:
NAME/KEY: SITE
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OTHER INFORMATION:
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               APPLICATION NUMBER: 60/047,503
                                                APPLICATION NUMBER: 60/047,618
                                                                  FILING DATE:
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FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,584
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,500

FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,587
FILING DATE: 1997-05-23
APPLICATION NUMBER: 60/047,492

DR FILING DATE: 1997-05-23

OR APPLICATION NUMBER: 60/047,598

OR FILING DATE: 1997-05-23

OR APPLICATION NUMBER: 60/047,613

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OR APPLICATION NUMBER: 60/047,582

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OR APPLICATION NUMBER: 60/047,601

OR FILING DATE: 1997-05-23

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OR APPLICATION NUMBER: 60/056,882
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OR APPLICATION NUMBER: 60/056,903
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NUMBER OF SEQ ID NOS: 344
SOFTWARE: Patentin Ver. 2
SEQ ID NO 92
LENGTH: 1433
TYPE: DAN
ORGANISM: Homo sapiens
US-10-050-704-92
Search completed: January 28, 2004, 16:03:45 Job time : 446 Becs
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US-10-050-704-92
US-10-050-704-92
US-10-050-704
Publication No. US20030050442A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: 62 Human Secreted Proteins
FILE REFERENCE: PZ039P1
CURRENT APPLICATION NUMBER: US/10/050,704
CURRENT FILING DATE: 2002-01-18
PRIOR APPLICATION NUMBER: 09/684,524
PRIOR APPLICATION NUMBER: 09/684,524
PRIOR FILING DATE: 2000-10-10
PRIOR FILING DATE: 2000-04-06
PRIOR FILING DATE: 2000-04-06
PRIOR APPLICATION NUMBER: 60/128,693
PRIOR APPLICATION NUMBER: 60/130,991
PRIOR APPLICATION NUMBER: 60/130,991
PRIOR FILING DATE: 1999-04-26
PRIOR FILING DATE: 1999-04-26
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PRIOR FILING DATE: 1997-09-05
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AJ562092 Cryptospo
BM065008 KS01073H0
AJ484699 AJ484699
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I (bases 1 to 837)

Strong, W.B. and Nelson, R.G.

Preliminary profile of the Cryptosporidium parvum genome: 
expressed sequence tag and genome survey sequence analysis

Mol. Biochem. Parasitol. 107 (1), 1-32 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                               sequence.
AQ411949
AQ411949.1
                                                                                                                                                                                                                    Box 0811, San Francisco,
Tel: 415 206 8846
Fax: 415 206 3353
                                                                                                                                                                                                                                                             Contact: Nelson, R. G.
Depts. of Medicine & Pharmaceutical Chemistry
San Francisco General Hospital-University of California,
                                                                                                                                                                                                                                                                                                                                                                       Cryptosporidium parvum Eukaryota; Alveolata; Apicomplexa; Coccidia; Cryptosporidium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              AQ411949 837 bp DNA CPG0925A CPIOWAGDNA1 Cryptosporidium parvum
                                                                                                                                                                                                         Email: malaria@itsa.ucsf.edu
                                                                                                                                                                                                                                                     Francisco
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                                                                                                                                                                                  Annotation Data see http://medsfgh.ucsf.edu/id/CpTags/home.html primer: M13(-21) forward
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/cloime lib="CpIOWAgDNA1"
/note="Vector: pBlueScript II (SK-); Site_1: EcoRV; C.
/note="Vector: pBlueScript II (SK-); Site_1: Parvim (IOWA isolate) genomic DNA was hydrodynamically
sheared to produce fragments having a tight size
distribution between 2-4 kb by Dr. Yvonne Thorstenson of
the Stanford DNA Sequencing and Technology Center
(http://sequence-www.stanford.edu/group/techdev/shear.htm
). The randomly sheared gDNA was chromatographed on
                                                                                             /db_xref="taxon:5807"
/lab_host="E. coli XL
                                                                                                                                                             Cocation/Qualifiers
                                                                                                                  strain="IOWA"
                                                                                                                                        organism="Cryptosporidium"
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BF635108 NF079G02D
BQ796462 EST 5400
AV556169 AV556169
BF716479 NCEST3a13
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CA668386 wlsu1.pk0
AL384638 MtBC23E02
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Bankler, A.T., Spriggs, H.F., Fartmann, B., Konfortov, B.A., Madera, Nogel, C., Teichmann, S.A., Ivens, A. and Dear, P.H.
Integrated mapping, chromosomal sequencing and sequence analysis Cryptosporidium parvum Genome Res. (2003) In press
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        580 bp DN. Cryptosporidium parvum GSS, PAC clone sequence, genomic survey sequence. AJ562092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AJ562092.1 GI:31336694
GSS; genome survey sequence.
Cryptosporidium parvum
Cryptosporidium parvum
Cryptosporidium parvum
Cryptosporidium parvum
Cryptosporidium parvum
Cryptosporidium parvum
                                                                                                                                                                                                                                                                                                                              Submitted (09-MAY-2003) Dear P.H., PNAC Biotech Division, MRC Laboratory of Molecular Biology, Hills Road, Cambridge, Cambs CB2
                                                                                                                                                                                                                                                                                                                                                                              Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                 Dear, P.H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cryptosporidiidae; Cryptosporidium
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/dev_stage="oocyst"
/note="T7 end sequence"
87 c 91 g 1
                                                                                                                                                               /mol_type="genomic
/serotype="Type 2"
/isolate="Iowa"
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/clone_lib="pica"
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1 (bases 1 to 683)

1 (bases 1 to 683)

1 (bases 1, Chung, Y.-H., Shin, H.-J., Goh, S.-H., Pai, H.-S., Hur, C.-G. and Choi, D.

Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from to Hypersensitive Beneration of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Sequence Tags from Hot Pepper (Capsicum Generation of Expressed Generation of Express
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BM065008
sequence
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Fax: 82-42-860-4309
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Response Against Pathogen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Capsicum annuum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BM065008.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGCAGATGTGGAAAGTTATGGGGAAAAGGATAAAATGGTTGATGGTGAGCAAGTAATCA
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                           S00011 Hordeum
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/note="Vector: pBluescript SK(-)"
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tissue_type="leaf inoculated with Xanthomonas campestris"
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cultivar="Bukang"
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                                                                                                                                                                                                                                                                                                          2.4%; Score 32;
100.0%; Pred. No.
                                                                                                                                                                                                                                                                                       <u>.</u>
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Pred. No.
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vulgare cDNA clone
                                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                          Contact: CUGI
Contact: CUGI
Contact: CUGI
Clemson University Genomics Institute
Clemson University
Clemson, SC 29634, U
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University of Helsinki
P.O.Box 56 (Viikinkaari 6A), University of Helsinki FIN-00014,
Finland.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AJ484699
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1 (bases 1 to 342)
1 (bases 1 to 342)
1 (bases 1 to 362)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AW218331 342 bp mRNA linear EST 18-MAY-2001 EST303514 tomato radicle, 5 d post-imbibition, Cornell University Lycopersicon esculentum cDNA clone cLEEGO21 similar to extensin-like protein, Dif10, mRNA sequence.
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Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae; Triticeae; Hordeum.
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Saren, A.-M., Tanskanen, J.,
                                                                                                                                                                                                                                                                                                                                                                                  Email: http://www.genome.clemson.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lycopersicon esculentum (tomato)
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/clone_lib="S00011"
/note="12,15,18 days after pollination"
66 c 54 g 93 t
                                /db_xref="taxon:4081"
/clone="cLEZ6021"
/tissue_type="radicle"
                                                                                                                                                      /cultivar="TA496"
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                                                                                                           Fgr-C_1_H23_T7 sequence.
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Gibberella zeae
Gibberella zeae
Bukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
Hypocreomycetidae; Hypocreales; Nectriaceae; Gibberella.
1 (bases 1 to 686)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Schulman AH
Institute of Biotechnology
University of Helsinki
P.O.Box 56 (Viikinkaari 6A),
                                                                                            BU060709.1 GI:22500998
                                                                                                                                                     BU060709
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Hordeum vulgare
Eukaryota; Viridiplantae; Streptophyta; Em
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AJ484700 S00011 Hordeum vulgare
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Barley EST's
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Xho1; supplier: Tanksley; Tissue supplied by Dave Garvi
(USDA-ARS, Ithaca, NY 14850)."
36 c 70 g 99 t
                                                                                                                                                                                                                                                                                                                                                /dev_stage="Developing seed"
/clome_lib="S00011"
/note="12,15,18 days after pollination"
83 c 67 g 101 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
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University"
                                                                                                                                                                                                                                                                                                                                                                                                        /mol_type="mRNA"
/db_xref="taxon:4513"
/clone="80001100038A06F1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                organism="Hordeum vulgare"
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100.0%; Pred. No.
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k; Pred. No. 0;
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a; Poales; Poaceae; Pooidea
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Trail, F., Xu, J.-R., San Miguel, P., Halgren, R.G.
Analysis of expressed sequence tags from Gibbere
                                                                                                                                                                                                                                                                                                                                                                             Gibberella zeae
Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
Hypocreomycetidae; Hypocreales; Nectriaceae; Gibberella.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                689 bp FgrN 5_E15_T7 Nitrogen-starved m sequence.
                                                                                                                                                                                             East Lansing, MI
Tel: 517 432 2939
Fax: 517 353 1926
                                                                                                                                                                                                                                    Contact: Frances Trail
Department of Plant Biology
Michigan State University
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Tel: 517 432 2939
Fax: 517 353 1926
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Fungal Genet. Biol. 3
22508120
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Department of Plant Biolo
Michigan State University
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
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5 row: E co
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                                       /db xref="taxon:5518"
/clone lib="Nitrogen-starved mycelia"
/clone lib="Nitrogen-starved mycelia"
/note="Vector: Uni-ZapII; Site_1: Eco
180 c 186 g 172 t
                                                                                                        /organism="Gibberella
/mol_type="mRNA"
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/strain="NRRL 31084"
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zeae cDNA, mRNA
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RESULT 10
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The Samuel Roberts Noble Foundation
The Samuel Roberts Noble Foundation
                                                                                wlmk8.pk0025.g4 wlmk8 Triticum 5' end, mRNA sequence. CA696313
              Triticum aestivum (bread wheat)
Triticum aestivum
                                                                                                                                     CA696313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: gdmay@noble.org
Insert Length: 846 Std Error: 0.0
Plate: 055 row: G column: 11
Seq primer: TCACACAGGAAACAGCTATGAC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2510 Sam Noble Parkway, Ardmore,
Tel: 580 221 7391
Fax: 580 221 7380
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
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Medicago truncatula
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
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                                                                                                                                                                                                                                                                                                                                                                                                      /tissue_type="Plantlets"
/dev_stage="Pooled timepoints"
/clone_lib="Drought"
/note="Vector: Lambda Zap; Contains a mixture of entire
plantlets harvested in a series of days-post-watering
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Medicago truncatula"
|mol_type="mRNA"
|db xref="taxon:3880"
|clone="NF055G11DT"
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                                                                  GI:25418099
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AUTHORS
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AA126428/c
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ORGANISM
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JOURNAL
MEDLINE
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30;
                                                                                                                                                                                                                             1 (bases 1 to 447)
Hillier,L., Lennon,G., Becker,M., Bonaldo,M.F., Chiapelli,B.,
Chissoe,S., Dietrich,N., DuBuque,T., Favello,A., Gish,W., Hawkins
Chissoe,S., Dietrich,D., DuBuque,T., Favello,A., Gish,W., Hawkins
M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mardis,E., Moore
B., Morris,M., Parsons,J., Prange,C., Rifkin,L., Rohlfing,T.,
Schellenberg,K., Soares,M.B., Tan,F., Thierry-Meg,J., Trevaskis,E.,
Underwood,K., Wohldmann,P., Waterston,R., Wilson,R. and Marra,M.
Generation and analysis of 280,000 human expressed sequence tags
Genome Res. 6 (9), 807-828 (1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 zn84h09.sl Stratagene
IMAGE:564929 3', mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      E. I. DuPont de Nemours and Company
1 Innovation Way, P.O. Box 6104, Newark,
Tel: 302-631-2602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooldeae; Triticeae; Triticum.

1 (bases 1 to 407)

Tingey,S.V., Powell,W., Wolters,P., Dolan,M., Hainey,C., Yuan,Z., Miao,G., Caraher,N. and Hanafey,M.K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Scott V. Tingey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DuPont Wheat cDNA Sequence
              This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information Seq primer: -40M13 fwd. from Amersham
                                                                                                                                    Washington University Scho
4444 Forest Park Parkway,
                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EST
                                                                                             Tel: 314 286 1800
Fax: 314 286 1810
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                                                                             Email: est@watson.wustl.edu
                                                                                                                                                                           Contact: Wilson RK
                                                                                                                                                                                             8889549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: Scott.V.Tingey@USA.dupont.com
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAAGTAAAAAAAAAAAAAAAAAAACTCGAG
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quality sequence stop:
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ilarity 100.0%;
Conservative (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /clone="wlmk8 pk0025.g4"
/t1ssue_type="leaf"
/clone_lib="wlmk8"
/note="Vector: pBluescript_SK+;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cultivar="Stephens"
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                                                                                                                                  School of Medicine way, Box 8501, St. 1
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Pred. No.
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                                                                                                                                      Louis,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Schistosoma japonicum
Schistosoma japonicum
Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 (bases 1 to 515)
Hu,W., Yan,O., Shen,D., Liu,F., Xu,X., Zhu,Z., Zhang,X., Wang,J., Sun,J., Xu,X., Wang,Z., Zeng,L., Rong,Y., Wu,X., Qu,J., Xu,Z., Huang,J., Ma,Y., Wang,S., Wang,Z., Xue,C., Feng,Z., Chen,Z. and Hi
                                                                                                                                                                                                                                                                                                                                         Contact: Zeguang Han
Chinese National Human Genome Center at Shanghai
351 Guo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong,
201203, P. R. China
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SJM2BKH09 SJM Schistosoma japonicum cDNA, mRNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                 Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Strigeidida; Schistosomatoidea; Schistosomatidae; Schistosoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BU721218
                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                Expressed sequence tags from male adults of Schistosoma
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 Conservative
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                                                                                                                                                                                                                                                                                         hanzg@chgc.sh.cn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                 /tissue_type="Whole body"
/dev_stage="adult"
/lab_host="rabbits"
/clone_lib="SUM"
a 83 c 79 g 197 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /dev_stage="cell line NCI-H69"
/lab_host="SOLR (kanamycin resistant)"
/clone_lib="Stratagene lung carcinoma 937218"
/note="Organ: lung; Vector: pBluescript SK-; Site_1: EcoRI
/ Site_2: XhoI; Cloned unidirectionally. Primer: Oligo
dT. Small cell carcinoma cell line NCI-H69. Average
insert size: 1.0 kb; Uni-ZAP XR Vector; ~5' adaptor
sequence: 5' GAATTCGGCACGAG 3' ~3' adaptor sequence: 5'
CTCGAGTTTTTTTTTTTTTTTTTTTTTT 3'"

83 C 77 g 164 t 3 others
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/tissue_type="lung_carcinoma"
/cell_line="NCI-H69"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Homo sapiens"
/mol_type="mRNA"
                                                                                                                                                                                              /organism="Schistosoma japonicum"
/mol_type="mRNA"
/db_xref="taxon:6182"
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                                                                                                                                                                               sex="male"
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                  2.3%;
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Pred. No.
                  Score 30;
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Shoemaker,R., Keim,P., Vodkin,L., Erpelding,J., Coryell,V., Khanna Shoemaker,R., Keim,P., Vodkin,L., Kucaba,T., Martin,J., Beck,C., A., Bolla,B., Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylie,T., Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R., and Wilson,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BQ081761 559 bp mRNA linear EST 04-APR-2002 san28h07.yl Gm-c1084 Glycine max cDNA clone SOYBEAN CLONE ID: Gm-c1084-5365 5' similar to TR:Q9XI42 Q9XI42 F9L1.21 PROTEIN. ;,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             High quality sequence stop:
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unpublished Contact: Shoemaker R/Public Soybean EST Project
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BQ081761.1 GI:19938525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              www.resgen.com
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              call: (800)-533-4363 or contact:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This clone is available through: ResGen, South Memorial Parkway Huntsville, AL 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: est@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. 1
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                                                                                                                                        165
                                                                                                                               digestion. The cDNA fragments were directionally cloned into the EcoRI-XhoI restriction site of the pBluescript vector. The ligated cDNA fragments were transformed into DH10B host cells (Gibco BRL). This library was constructed by M. Bhattacharyya in the laboratory of Dr. Randy Shoemaker at Iowa State University."
                                                                                                                                                                                                                                                                                                                               Phytophthora soyae race 1 and tissues were harvested 2 and 4 hours following infection. The library is the pool of these two time points. Complementary DNA was synthesized from mRNA using a primer consisting of a poly(dT) sequence with a XhoI restriction site. EcoRI adapters were ligated to the blunt-ended cDNA fragments followed by XhoI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol_type="mkNA"
/db_xref="taxon:3847"
/clone="SOYBEAN CLONE ID: Gm-c1084-5365"
/tissue_type="Etiolated hypocotyls (Williams
/lab_host="DH10B"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone lib="Gm-c1084" II SK+; Site 1: EcoRI; Site 2: /note="Vector: pBluescript II SK+; Site 1: EcoRI; Site 2: XhoI, The cDNA library was contructed by M. Bhattacharyya from mRNA isolated from etiolated hypocotyls from the cultivar Williams 82. Tissue was inoculated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         organism="Glycine max"
                                                 2.3%;
Score 30; DB; Pred. No. 0; 0; Mismatches
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web site:
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AW334649/c
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$38G4 AGS-1 Pneumocystis
AW334649
Unpublished
Contact: Gijzen M
Agriculture and Agri-Food Canada
                                               1 (bases 1 to 647)
Harris, N., Chapman, B.P. and Gijzen, M.
Gene expression in developing soybean
                                                                                             Glycine
                                                                                                            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eu eurosids I; Fabales; Fabaceae; Papilionoideae; Phas
                                                                                                                                                           Glycine max (soybean)
Glycine max
                                                                                                                                                                                                                                   BE661929
1240 GmaxSC Glycine max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: staben@pop.uky.edu.
Location/Qualifiers
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University of Kentucky
101 Morgan Building, University of Kentucky, Lexington,
40506-0225, USA
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Fax: 606 257 1717
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lian, A.G., Arnold, J., Weise, M.,
C., Kovacs, J. and Cushion, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 198
                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                               /clone lib="AGS-1"
/note="Vector: Lambda ZAP II; Site 1: EcoRI; Site 2: Xhol
/note="Vector: Lambda ZAP II; Site 1: EcoRI; Site 2: Xhol
P. carinii organisms (3x10e9) from a single rat (99-1-6,
Bacrificed on 3/17/99) at Cincinnati VA facilities.
Trizol extracted RNA. Oligo dT priming, standard
conditions described by vendor, Stratagene. Further
details see www.uky.edu/Project/Pneumocystis/"
a 82 c 88 g 235 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Pneumocystis
/mol_type="mRNA"
/db_xref="taxon:4754"
/lab_host="E._coli"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Medicago truncatula
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnollophyta; eudicotyledons; core eudicots; rosid; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifolieae;
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678 bp mRNA linear ES NF051F03IN1F1030 Insect herbivory Medicago truncatula NF051F03IN 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 (bases 1 to 678)

Korth, K., Scott, A.D., Harris, A.R., Gonzales, H.R., Inman, J.T., Weller, J.W. and May, G.D. Expressed Sequence Tags from the Samuel Robe Medicago truncatula insect herbivory library
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1391 Sandford Street, London, Ontario, Canada NSV 4T3 Tel: S19 457 1470 Fax: S19 457 3977 Email: gijzenm@em.agr.ca.
                                                                                                                                                                                                                                          University of Arkansas
217 Plant Science Building,
Tel: 501 575 5191
Fax: 501 575 7601
                                                                                                                                                                                                                                                                                                                                                          Contact: Korth K
Dept. of Plant Pathology
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                                                                                                                Insert Length: 678 Std Error: 0.0 Plate: 051 row: F column: 03 Seq primer: TCACAAAGGAAAAAGCTATGAC.
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/lab host="E. coli strain XLOLR"
/clone_lib="GmaxSC"
/clone_
                                                                                                                                                                                                                 kkorth@comp.uark.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    conversion into phagemid vector strain XLOLR."
                                                                                       Location/Qualifiers
/organism="Medicago truncatula"
/mol_type="mRNA"
                                                                 1. .678
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/tjssn- ---
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BF316408
601901981F1 NIH_MGC_19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LLCM1028 row: a column: 22
High quality sequence stop: 561.
Location/Qualifiers
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NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BF316408.1 GI:11264765
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                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cDNA Library Preparation: Ling Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
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                                                                                                                                                                                                              /clone="IMAGE:4130973"
/clone="IMAGE:4130973"
/tissue_type="neuroblastoma"
/lab_host="DH10B (phage-resistant)"
/clone lib="NIH MGC 19"
/clone lib="NIH MGC 19"
/clone lib="NIH MGC 19"
/note="Organ: brain; Vector: pOTB7; Site_1: XhoI; Site_2:
/note="
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /clone libe Insect herbivory"
/note="Vector: Lambda Zap; Library was produced from fully
/note="Vector: Lambda Zap; Library was produced from fully
/note="Vector: Lambda Zap; Library was produced from fully
/expanded M. truncatula leaves of plants fed upon by
Spodoptera exigua (beet armyworm) for 24 hours. Systemic
(undamaged leaves from injured plants) and wounded leaves
were harvested and pooled."
2 others
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/tissue_type="local and systemic leaves"
/dev_stage="mature"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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                                                                                                                                                                                                                                                                                         259 bp mRNA linear wlsu2.pk0007.d10 wlsu2 Triticum aestivum cDNA clone wlsu2.pk0007.d10 5' end, mRNA semience CA671333
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1 (bases 1 to 166)
Satou, Y., Shin-1, T., Kohara, Y. and Satoh, N.
Expressed genes in Ciona intestinalis (2002c)
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                                                                                                Tingey, S.V., Powell, W., Wolters, P., Miao, G., Caraher, N. and Hanafey, M.K. DuPont Wheat cDNA Sequence
                                                                                                                                                Bukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidea; Triticoae; Triticum.

1 (bases 1 to 259)
                                                                                                                                                                                                                    Triticum aestivum
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                                                                                                                                                                                                                                                                                     CA671233
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Tel: 81-75-753-4081
Fax: 81-75-705-1113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kyoto University
Sakyo-ku, Kyoto, Kyoto 606-8502,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Contact: Nori Satoh
Department of Zoolo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ciona intestinalis
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                                                                                                                                                                                                                                  Triticum aestivum (bread wheat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: satoh@ascidian.zool.kyoto-u.ac.jp.
                                                 Crop Genetics
                                                                  Contact: Scott V. Tingey
. I. DuPont de Nemours and Company
Innovation Way, P.O. Box 6104, Newark, DE 19714-6104, USA
el: 302-631-2602
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49 c
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/mol_type="mRNA"
/db_xref="taxon:7719"
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/clone_lib="Nori Satoh unpublished cDNA library, gastrula
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                             1295 AAGTAAAAAAAAAAAAAAAAAAACTCGAG 1323
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35
                                                                                                                                                                                                                                                                                                                                                                                           E. I. DuPont de Nemours and Company
1 Innovation Way, P.O. Box 6104, Newark, DE 19714-6104, USA
Tel: 302-631-2602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       wipic.pk001.d10 wipic Triticum aestivum cDNA clone wipic.pk001.d10 5' end, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DuPont Wheat cDNA Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Triticum aestivum (bread wheat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CA729647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tingey,S.V., Powell,W., Wolters,P., Dolan,M., Hainey,C., Yuan,Z., Miao,G., Caraher,N. and Hanafey,M.K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poalea; Poaceae; Pooidea; Triticeae; Triticum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CA729647.1 GI:25451650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Contact: Scott V. Tingey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: Scott.V.Tingey@USA.dupont.com
                                                                                                                                                                                                                                                                                                                                                                Email: Scott.V.Tingey@USA.dupont.com
                                                                                                                                                                                                                                                                                                                                                                                 Fax: 302-631-2607
                                                                               Similarity
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AAGTAAAAAAAAAAAAAAAAAAACTCGAG 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /mol type="mRNA"
/cultivar="Scephens"
/db xef="taxon:4565"
/clone="wlsu2:pk0007.d10"
/tissue type="leaf"
/clone_Tib="wlsu2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /clone_lib="wlsu2"
/note="Vector: PGEM-T Easy; Site_1: EcoRI; Site_2: XhoI;
/mheat (Triticum aestivum L.) wlk8 cDNAs substracted with
                                                                                                                                              /clome_lib="wipic"
/note="Vector: pBluescript SK+; Site 1: EcoRI; Site 2:
/note="Vector: pBluescript SK+; Site 1: EcoRI; Site 2:
XhoI; Wheat (Triticum aegtivum, Hi Līne) immature pīst:
XhoI; Wheat S g S 5 t 5 others
                                                                                                                                                                                                              /db_xref="taxon:4565"
/clone="wiplc.pk001.d10/
/tissue_type="pistils"
/lab_host="DH108"
                                                                                                                                                                                                                                                                                              organism="Triticum aestivum"
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                                                                                               Length 261;
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                                                                Indels
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AUTHORS
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ORGANISM
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BG232362/c
LOCUS
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VERSION
KEYWORDS
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AA325025/c
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                                                                                                                                                                                                                                                                                                29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                McCarter,J., Clifton,S., Chiapelli,B., Pape,D., Martin,J., Wylie,T., Dante,M., Marra,M., Hillier,L., Kucaba,T., Theising,B., Bowers,Y., Gibbons,M., Ritter,E., Bennett,J., Franklin,C., Tsagareishvili,R., Ronko,I., Kennedy,S., Maguire,L., Beck,C., Underwood,K., Steptoe,M., Allen,M., Person,B., Swaller,T., Harvey,N., Schurk,R., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R. and
                                     AA325025
AA325025.1
                                                                                              AA325025 294 bp mRNA 1
EST27949 Cerebellum II Homo sapiens cDNA 5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Genome Sequencing Center, St. Lo
Seq primer: -40RP from Gibco
High quality sequence stop: 249.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The Washington Univ. Nematode EST Project, 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Ancylostomatoidea; Ancylostomatidae; Ancylostomatinae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pa70a04.yl Hawdon Ancylostoma
5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The Washington Univ. Nematode EST Project, 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ancylostoma caninum
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Homo sapiens (human)
                                                                            containing L1 repeat, mRNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The library was constructed by Dr. John Hawdon of Yale University (john.hawdon@yale.edu). DNA Sequencing by: Washington University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: McCarter JP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ancylostoma caninum (dog hookworm)
                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                           AAGTAAAAAAAAAAAAAAAAACTCGAG 1323
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                                                                                                                                                                                                                                                                                                                                                                                                 96
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                                                                                                                                                                                                                                                                                                                                                                                             /dev_stage="3rd stage larva (L3)"
/lab_host="E. coli, XL-1 Blue MRP' (Stratagene)"
/clone lib="Hawdon Ancylostoma caninum L3"
/note="Vector: Lambda Uni-ZAP XR Vector (Stratagene);
Site 1: ECORI (5'); Site 2: XhoI (3'); Ollyo (dT) print
library from L3 worms isolated from dog. cDNA was
contructed and cloned unidirectionally into the vecto
from the EcoRI to the XhoI site. The library went
through one round of amplification."
45 c 58 g 70 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              organism="Ancylostoma caninum"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sex="female and male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       strain="Shanghai strain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mol_type="mRNA'
                                         GI:1977271
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Ancylostoma.
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to EST
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RESULT 23
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C.J., Lee, N.H., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White
O., Sutton, G., Blake, J.A., Brandon, R.C., Man-Wai, C., Clayton, R.A.,
Cline, T.R., Cotton, M.D., Earle-Hughes, J., Fine, L.D., Fitzgerald
L.M., Fitzhugh, W.M., Fritchman, J.L., Geoghagen, N.S., Glodek, A.,
Gnehm, C.L., Hanna, M. C., Hedblom, E., Hinkle, P.S. Jr., Kelley, J.M.,
Kelley, J.C., Liu, L.-I., Marmaros, S.M., Merrick, J.M.,
Moreno-Palanques, R.F., McDonald, L.A., Nguyen, D.T., Pelligrino, S.M.,
Moreno-Palanques, R.F., McDonald, L.A., Nguyen, D.T., Pelligrino, S.M.,
Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R.,
Small, K.V., Spriggs, T.A., Utterback, T.R., Weidman, J.F., Li, Y.,
Bednarik, D.P., Cao, L., Cepeda, M.A., Coleman, T.A., Collins, E.J.,
Dinke, D., Feng, D.-F., Ferrie, A., Fischer, C., Hastings, G.A., He, W.W.,
Hu, J.S., Greene, J.M., Gruber, J., Hudson, P., Kim, A.K., Kozak, D.L.,
Kunsch, C., Hungjun, J., Li, H., Meissner, P.S., Olsen, H., Raymond, L.,
Wei, Y.F., Wing, J., Xu, C., Yu, G.L., Ruben, S.M., Dillion, P.J., Fannon
,M.R., Rosen, C.A., Haseltine, W.A., Fields, C., Fraser, C.M. and
                                                                                                                                                                                                                                                                                                                                                                1295 AAGTAAAAAAAAAAAAAAAAAACTCGAG 1323
                                                                                                                                                                                                                                                                                                                         47
                                                                                                                                               ft30b12.y1 Gong zebrafish testis Danio rerio cDNA clone
IMAGE:5152079 5' similar to SW:DUT_RAT P70583 DEOXYURIDINE
5'-TRIPHOSPHATE NUCLEOTIDOHYDROLASE;, mRNA sequence.
Eukaryota; Metazoa; Chordata; Actinopterygii; Neopterygii; T
                                            Danio rerio
                                                                                                                             BI673873
                                                                                                                                                                                                                                                                                                                                                                                                             29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Email: arkerlav@tigr.org
For clone availability, additional sequence and expression
information related to this EST, please check the TIGR Human Gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence Nature 377 (6547 Suppl), 3-174 (1995) 96026280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                             Danio rerio (zebrafish)
                                                                                                         BI673873.1 GI:15589257
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The Institute for Genomic Research 9712 Medical Center Drive, Rockville, MD 20850 USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Index (http://www.tigr.org/tdb/hgi/hgi.html)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol_type="mRNA"
/db_xref="ATCC (inhost):125520"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /tissue_type="cerebellum"
/dev_stage="adult"
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Primates;
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; Craniata; Vertebrata; Euteleostomi; Teleostei; Ostariophysi; Cypriniformes
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ORIGIN
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29; Conserv
  Eukaryota; Metazoa; Chordata; Actinopterygii; 'Neopterygii; '
                                                                                      EST
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                                              Danio rerio
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1295 ААСТААЛАЛАЛАЛАЛАЛАЛАЛАСТССАС 1323
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Clark, M., Johnson, S.L., Lehrach, H., Lee, R., Li, F., Marra, M., Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, S., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R.
                                                                                                                                                                                             fw74d10.y1 Gong zebrafish testis Danio rerio cDNA clone
IMAGE:5616066 5' similar to SW:DUT RAT P70583 DEOXYURIDINE
5'-TRIPHOSPHATE NUCLECTIDOHYDROLASE; mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   contact Zhiyuan Gong for further information on this libr
(National University of Singapore, Department of Biologic
Sciences, Lower Kent Ridge Road, Singapore 119260).
zebrafish identity (p-value greater than le-99) found to:
gi|2446831|gb|AA606178|AA606178 fa28d11.s1 Ekkerpost segm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The library was constructed by Dr. Z. Gong. DNA Sequencing by Washington University Genome Sequencing Center St. Louis. Plocontact Zhiyuan Gong for further information on this library
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Fax: 314 286 1810
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Unpublished
                                                                                Danio rerio (zebrafish)
                                                                                                                                        BM530269.1 GI:18738032
                                                                                                                                                                                          5'-TRIPHOSPHATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: zbrafish@watson.wustl.edu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Stephen L. Johnson Washington University School of Medicine
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Please contact Zhiyuan Gong for further information on
this library (National University of Singapore,
Department of Biological Sciences, Lower Kent Ridge Ro
Singapore 119260) "
81 t
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/clone_lib="Gong zebrafish testis"
/clone_lib="Gong zebrafish testis"
/note="Torgan: testis (pooled); Vector: pBluescript SK-;
/note="Torgan: testis (pooled); Vector: pBluescript SK-;
Site_1: XhoI; Site_2: EcoRI; Poly A+ RNA was isolatd from
the testes of 31 male adult zebrafish (4-5 month old).
cDNAs were made using oligo-dT primers and inserted into
lambda ZAP II vector (Stratagene) by Dr. Z. Gong, in vivo
lambda ZAP II vector (Stratagene) by Dr. Z. Washington
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/mol_type="mRNA"
/db_xref="taxon:7955"
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Teleostei;
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Vertebrata; El Ostariophysi;
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                             Euteleostomi;
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in vivo
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Fax: 314 286 1810
Email: zbrafish@watson.wustl.edu
The llbrary was constructed by Dr. Z. Gong. DNA Sequencing by Washington University Genome Sequencing Center St. Louis. Ple contact Zhiyuan Gong for further information on this library (National University of Singapore, Department of Biological Sciences, Lower Kent Ridge Road, Singapore 119260).
Seq primer: T3 ET from Amersham.
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1 (bases 1 to 332)

Clark, M., Johnson, S.L., Lehrach, H., Lee, R., Li, F., Marra, M., Eddy, S., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwoo, S., Hillier, L., Kucaba, T., Martin, M., Bowers, Y., Person, B., K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R.
                                                                Eukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnollophyta; Liliopaida; Poales; Poaceae; PACCAD clade; Paticoideae; Andropogoneae; Zea.

1 (bases 1 to 364)
                                                                                                                                                                                                                                                                      Zea mays cDNA, mRNA sequence.
BI596045
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4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
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                 Walbot,V.
Maize ESTs from various cDNA libraries sequenced at Stanford
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/clone lib="Gong zebrafish testis"
/clone lib="Gong zebrafish testis"
/note="Torgan: testis (pooled); Vector: pBluescript SK-;
/note="Torgan: testis (pooled); Vector: pBluescript SK-;

Site_1: XhoI; Site_2: EcoRI; Poly A+ RNA was isolatd from
the testes of 31 male adult zebrafish (4-5 month old).
the testes of 31 male adult zebrafish (4-5 month old).
cDNAs were made using oligo-dT primers and inserted into
cDNAs were made using oligo-dT primers and inserted into
lambda ZAP II vector (Stratagene) by Dr. Z. Gong, in vivo
mass-excised to pBluescript SK- following the Washington
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1 54 c 90 g
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/db_xref="taxon:7955"
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Pred. No.
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Wylie, T., Underwood
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DEFINITION
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BI233432
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Query Match
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855 California Ave, Palo Alto, CA 94304, USA
Tel: 650 723 2227
Fax: 650 725 8221
Email: walbot@stanford.edu
Plate: 949010 row: A column:
Location/Qualifiers
                                                                                                                                                Contact: Walbot V
Department of Biological Sciences
Stanford University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BI233432 367 bp mRNA linear 1949010A01.y2 949 - Juvenile leaf and shoot cDNA from
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                                                                                                                                                                                                                     Unpublished
                                                                                                                                                                                                                                                                                                                     Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopaida; Poales; Poaceae; PACCAD clade; Panicoideae; Andropogoneae; Zea.
1 (bases 1 to 367)
                                                                                                                                                                                                                                                                                                                                                                                                                   Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Zea mays cDNA, mRNA sequence.
BI233432
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Plate: 949076 row: B
                                                                                                                                                                                                                                                   University
                                                                                                                                                                                                                                                                                              Walbot, V.
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                                                                                                                       855 California Ave, Palo
                                                                                                                                                                                                                                                                       Maize ESTs from various cDNA libraries sequenced at Stanford
                                                                                                                                                                                                                                                                                                                                                                                                                                               Zea mays
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note="Organ: juvenile vegetative shoots; Vector:
pAD-GAL4-2.1; Site 1: EcoRI; Site 2: Khoi; Equal amounts
of total RNA by weight from 4 tissue sources (see below)
were pooled, polyA+ RNA isolated, and cDNA synthesized for
EcoRI (5') and KhoI (3') directional cloning into lambda
Hybrizap vector from Stratagene. Tissue Sources: 1. Whole
shoots 3 days after sowing/imbibing in wet soil 2. Basal
1.5 cm shoots 6 days after sowing - includes yellow
portions of developing leaves 1-5, primordia from 6-8, and
the vegetative apex. 3. Non-green portions of developing
leaves 4-5 and the vegetative apex, including adult leaf
primordia, 9 days after sowing. 4. Partially expanded and
greening leaves 4-5 at 13 days after sowing."

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67 c
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Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   dev_stage="4 stages from 3-13 days after imbibing"
lab_host="E. coli XLOLR"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tissue_type="immature leaf primordium and vegetative"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cultivar="W64A"
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Pred. No.
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BE445989
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Best Local
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                                                                                             source
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                                                                                                                                                                                                                                                                    Contact: Olin Anderson
US Department of Agriculture, Agriculture Research
West Area, Western Regional Research Center
800 Buchanan Street, Albany, CA 94710, USA
Tel: 5105595773
                                                                                                                                                                                                                                                                                                                                                                                                                                      i (bases 1 to 377)
Anderson,O.D., Chao,S., Choi,D.W., Close,T.J., Fenton,R.D., Han,P.S., Hsia,C.C., Kang,Y., Lazo,G.R., Miller,R., Nguyen,H.T., Rausch,C.J., Seaton,C.L., Tong,J.C. and Zhang,D.
The structure and function of the expressed portion of the wheat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BE445989 377 bp mRNA linear EST 25-WHE1148_E10_J20ZS Wheat etiolated seedling root normalized library Triticum aestivum cDNA clone WHE1148_E10_J20, mRNA
                                                                                                                                           Email: oandersn@pw.usda.gov
Sequence have been trimmed to remove vector
quality sequence with phred score less than
Seq primer: Stratagene SK primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooidea; Triticeae; Triticem.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Triticum aestivum
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                                                                                                                                                                                                                                                                                                                                                                                                                      genomes - Normalized root cDNA library
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Triticum aestivum (bread wheat)
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pAD-GAL4-2.1; Site 1: EcoRI; Site 2: Xho1; Equal amounts
of total RNA by weight from 4 tissue sources (see below)
were pooled, polyA+ RNA isolated, and cDNA synthesized for
EcoRI (5') and XhoI (3') directional cloning into lambda
Hybrizap vector from Stratagene. Tissue Sources: 1. Whole
shoots 3 days after sowing/lmbibing in wet soil. 2. Basal
1.5 cm shoots 6 days after sowing - includes yellow
portions of developing leaves 1-5, primordia from 6-8, and
the vegetative apex. 3. Non-green portions of developing
leaves 4-5 and the vegetative apex, including adult leaf
primordia, 9 days after sowing. 4. Partially expanded and
greening leaves 4-5 at 13 days after sowing."
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/lab host="E. coli XLOLR"
/clone lib="949 - Juvenile leaf and shoot cDNA from Moose"
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meristem"
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/mol_type="mRNA"
/cultivar="W64A"
/mol_type="mRNA"
/cultivar="Chinese Spring"
/db_xref="taxon:4565"
                                                                                                                      Location/Qualifiers
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                                                                      organism="Triticum aestivum'
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20
                                                                                                                                                                                                                                                                                                                                             Service, Pacific
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BI674867
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                                                                                                                                                                                                                                                                                                                                       855 California Ave,
Tel: 650 723 2227
Fax: 650 725 8221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Walbot,V.
Maize ESTs from various cDNA libraries sequenced at Stanford
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD clade; Panicoldeae; Andropogoneae; Zea.
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949076B02.y2 949 -
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Location/Qualifiers
                                                                                                                                                                                                                                                                                                                  Email: walbot@stanford.edu
                                                                                                                                                                                                                                                                                                                                                                                                           Stanford University
                                                                                                                                                                                                                                                                                                                                                                                                                             Department of Biological Sciences
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Contact: Walbot V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Zea mays
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (bases 1 to 407)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Photes Wector: Lambda Uni-ZAP XR, excised phagemid pBluescript SK; Site 1: EcoRI, Site 2: XhoI; Seeds were surface-sterilized, germinated and grown aseptically in the dark at room temperature on filter paper with water, nystatin and cefotaxime in covered crystallization dishes. Roots were harvested. The tissue, total RNA, and poly(A) RNA were prepared, a cDNA library was made in the TJ Close lab (Choi, Close, Fenton) at the University of California, Riverside. The cDNA clones were in vivo excised to give pBluescript phagemids before normalization was carried out. The mass excision of phagemid library and normalization were done in HT Nguyen lab by D. Zhang at Texas Tech University. Normalization protocol used was that of Soares. Plasmid DNA preparations and DNA sequencing were performed in the OD Anderson lab dall other authors)."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               96
                    /dev_stage="4 stages from 3-13 days after imbibing" /lab_host="E. coli XLOLR" /clone_lib="949 - Juvenile leaf and shoot cDNA from Steve Moose"
                                                                                                                                                                           /mol_type="mRNA"
/cultivar="W64A"
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note="Organ: juvenile vegetative shoots; Vector;
                                                                                                                                  tissue_type="immature leaf primordium"
                                                                                                                                                                                                                          organism="Zea mays"
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/dev_stage="Five_day_old_etiolated_seedling"
/lab_host="E. coli_DH10B"
                                                                                                                                                         db_xref="taxon:4577"
                                                                                                                                                                                                                                                 .407
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Juvenile leaf and shoot cDNA from
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Pred. No.
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RESULT 30
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Best Local Similarity
Matches 29; Conser
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                                                                                                1295 AAGTAAAAAAAAAAAAAAAAAAACTCGAG 1323
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                                                                 96
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                                                                                                                                                                                                                                                                                                                                                                                                      Seq primer: T7
                                                                                                                                                                                                                                                                                                                                                                                                                                       Tel: 732-445-3801
Fax: 732-445-5735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Lai, Jinsheng
Dr. Joachim Messing's lab
Wakeman Institute, Rutgers University
190 Frelinghuysen Rd., Piscataway, NJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequencing of the maize endosperm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Messing,J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CA403603
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                                                                                                                                                Similarity
                                                                  AAGTAAAAAAAAAAAAAAAAAACTCGAG 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     pAD-GAL4-2.1; Site 1: ECORI; Site 2: XhoI; Equal amounts of total RNA by weight from 4 tissue sources (see below) were pooled, polyA+ RNA isolated, and cDNA synthesized for ECORI (5') and XhoI (3') directional cloning into lambda Hybrizap vector from Stratagene. Tissue Sources: 1. Whole shoots 3 days after sowing/imbibing in wet soil. 2. Basal 1.5 cm shoots 6 days after sowing - includes yellow portions of developing leaves 1-5, primordia from 6-8, and the vegetative apex. 3. Non-green portions of developing leaves 4-5 and the vegetative apex, including adult leaf primordia, 9 days after sowing. 4. Partially expanded and greening leaves 4-5 at 13 days after sowing."
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                                                                                                                                                                                                                                               db xref="taxon:4577"
/tissue_type="Endosperm of 7-23DAP"
/clone_lb="Endosperm_4"
/note="Vector; pBluescript SK-; Site_1: EcoRI; Site_2:
                                                                                                                                                                                                                                                                                                                       /mol_type="mRNA"
/cultivar="W22"
                                                                                                                                                                                                                                                                                                                                                      organism="Zea mays"
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                                                                                                                                                2.2%;
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b; Pred. No. 0;
0; Mismatches
                                                                                                                              Score 29; DB; pred. No. 0; 0; Mismatches
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Best Local S
Matches 29
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TITLE
JOURNAL
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                                                                                                                                                                                                                                                                                                                    AUTHORS
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                                                  source
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BP123504
                                                                                                                                       Contact: John Quackenbush
The Institute for Genomic Research
9712 Medical Center Dr., Rockville,
Tel: 301 838 3528
Fax: 301 838 0208
                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 487)

Hegde, P., Qi, R., Abernathy, K., Dharap, S., Gaspard, R., Gay, C., Holt, T.E., Saeed, A.I., Sharov, V., Lee, N.H., Yeatman, T.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                      487 bp mRNA linear EST379385 MAGE resequences, MAGJ Homo sapiens cDNA, AW967310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bombyx mori
Bombyx mori
                                                                                                                                                                                                                         Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   National Institute of Agrobiological Sciences Anagawa 4-9-1, Inage, Chiba 263-8555, Japan Email: kmita@nias.affrc.go.jp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mita,K., Morimyo,M., Shimada,T., Okano,K. and Maeda,S Bombyx mori cDNA (Mita,K. 2003)
                                                                                                                                                                                                                                           Assessment of gene expression patterns in a model of colon tumor metastasis using a 19,200 element cDNA microarray
                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
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Bombycoidea; Bombycidae; Bombyx.
1 (bases 1 to 472)
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Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia;
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                                                                                                                                                                                                                                                                                 Quackenbush,J.
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Lity 100.0%;
Conservative
                                                                                     primer: Reverse
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                                                                                                                     johng@tigr.org
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Bombyx mori"
/mol_type="mRNA"
/db_xref="taxon:7091"
/clone="epV31125"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /tissue_type="epidermis"
/dev_stage="5th instar larva day
/clone_lib="epV3"
/ 105 c 79 g 152 t
                                                                   Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                Gay, C., Holt
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: est@watson.wustl.edu
This clone is available through: ResGen, Invitro
South Memorial Parkway Huntsville, AL 35801 For
call: (800)-533-4363 or contact via email: ccu@r
Seq primer: -40RP from Gibco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Public Soybean EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shoemaker, R., Keim, P., Vodkin, L., Erpelding, J., Coryell, V., Khanna, A., Bolla, B., Marra, M., Hillier, L., Kucaba, T., Mattin, J., Beck, C. Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurl, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.
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490 bp mRNA linear EST 29-NOV-2001
saf04c06.y1 Gm-c1065 Glycine max cDNA clone GENOME SYSTEMS CLONE
ID: Gm-c1065-4355 5', mRNA sequence.
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314 286 1810
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Location/Qualifiers
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                                                                  /note=Tvector: pBluescript II SK+; Site 1: EcoRI; Site 2: XhoI; The cDNA library was constructed from mRNA isolated germinating shoots of the cultivar Williams. The seeds were allowed to germinate for 24 hours prior to being cold stressed for 2 days at 4C. Complementary DNA was synthesized from mRNA using a priner consisting of a poly(dT) sequence with a XhoI restriction site. EcoRI adapters were ligated to the blunt-ended cDNA fragments followed by XhoI digestion. The cDNA fragments were directionally cloned into the EcoRI-XhoI restriction site of the pBluescript vector. The ligated cDNA fragments were transformed into DH10B host cells (GibcoBRL). This library
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  was constructed in the laboratory of Dr. Randy
Shoemaker."
76 c 119 g 154 t
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/note="Vector: pBluescriptSKm"
107 c 125 g 124 t
                                                                                                                                                                                                                                                                                                                                                                                               /tissue_type="germinating shoots"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /mol_type="mRNA"
/db_xref="taxon:3847"
                                                                                                                                                                                                                                                                                                                                                                      /clone_lib="Gm-c1065"
                                                                                                                                                                                                                                                                                                                                                                                                                                                clone="GENOME SYSTEMS CLONE ID: Gm-c1065-4355"
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Pred. No.
119 g
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801 For further in
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RESULT 34
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BP122909
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National Institute of Agrobiological Sciences
Anagawa 4-9-1, Inage, Chiba 263-8555, Japan
Email: kmita@nias.affrc.go.jp
method:uni-directional, sequence direction:sequenced from T3 primer
                       Bombyx mori cDNA Unpublished
                                                                                                                    Bombyx mori (domestic silkworm)
Bombyx mori
                                                                                                                                              EST
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BP122909.1
Genome Research Group
            Contact: Mita K
                                                 Mita, K., Morimyo, M., Shimada, T.,
                                                              Eukaryota; Metazoa; Arthropoda; Hexapoda; Neoptera; Endopterygota; Lepidoptera; Glos Bombycoidea; Bombycoidea; Bombycoidea; Bombyx.

1 (bases 1 to 516)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unpublished
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Neoptera; Endopterygota; Lepidoptera; Glossata;
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(bases 1 to 516)
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                                                                                                                                                                                                                                                                                                                                                                                                /tissue_type="epidermis"
/dev_stage="5th instar larva
/clone_lib="epV3"
                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone="epV30227"
                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mol_type="mRNA"
/db_xref="taxon:7091"
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                                                    Okano, K. and Maeda, S
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BB -;
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ssata; Ditrysia;
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RESULT 36
BP123966
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AUTHORS
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BP123880
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National Institute of Agrobiological Sciences
Anagawa 4-9-1, Inage, Chiba 263-8555, Japan
Email: kmita@nias.affrc.go.jp
method.uni-directional, sequence direction:sequenced from T3 primer
(5' -> 3').
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Anagawa 4-9-1, Inage, Chiba 263-8555, Japan
Email: kmita@nias.affrc.go.jp
method:uni-directional, sequence direction:sequenced from T3 primer
(5' -> 3')
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Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia;
Bombycoidea; Bombycidae; Bombyx.
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Similarity 100.0%; P
 BP123966
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/mol_type="mRNA"
/db_xref="taxon:7091"
/clone="egV30368"
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/dev_stage="5th instar larva
/clone_lib="epV3"
109 c 125 g 122 t
                                                                                                                                                                                                 /tissue_type="epidermis"
/dev_stage="5th instar larva day 3"
/dev_stage="epv3"
/clone_lib="epv3"
130 c 112 g 115 t 1 (
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AUTHORS
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BP123966
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Anagawa 4-9-1, Inage, Chiba 20
Email: kmita@nias.affrc.go.jp
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Bombycoidea; Bombycidae; Bombyx.
1 (bases 1 to 516)
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1 (bases 1 to 516)
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Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia;
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Contact: Mita K
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Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia;
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/mol_type="mRNA"
/db_xref="taxon:7091"
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/dev_stage="5th instar larva
/clone_lib="epV3"
129 c 111 g 117 t
/tissue_type="epidermis"
/dev_stage="5th instar larva
/clone_lib="epV3"
                                                                  /mol_type="mRNA"
/db_xref="taxon:7091"
                                                                                             organism="Bombyx mori"
                                                                                                                               Location/Qualifiers
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Bombyx mori cDNA (Mita,K. Unpublished Contact: Mita K
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Genome Research Group
Genome Research Group
National Institute of Agrobiological Sciences
Anagawa 4-9-1, Inage, Chiba 263-8555, Japan
Email: kmitaenias.affrc.go.jp
                                                    Mita, K., Morimyo, M., Shimada, T., Bombyx mori cDNA (Mita, K. 2003)
                                                                                                 Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neopteara; Endopterygota; Lepidoptera; Glossata; Ditrysia; Bombycoidea; B
                                                                                                                                                                                                      Bombyx mori
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Bombycoidea; Bombycidae; Bombyx.
1 (bases 1 to 516)
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/db_xref="taxon:7091"
/clone="epV32014"
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/dev_stage="5th instar larva day
/clone_lib="epV3"
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Endopterygota; Lepidoptera; Glossata; Ditrysia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Howe, D. K., Stamper, S., Tang, K., Sibley, L. D., Clifton, S., Marra, Hillier, L., Pape, D., Martin, J., Wyie, T., Theising, B., Bowers, Gibbons, M., Ritter, E., McCann, R., Blistain, A., Bennet, J., Schmira, Ronko, I., Tsagareishvili, R., Fedele, M., Belaygorod, L., Franklin, C., Carr, L. M., Grow, A., Maguire, L., Wadkins, J., Richey Waterston, R. and Wilson, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SnEST4a62d10.yl cSn l neurona cDNA 5', mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      National Institute of Agrobiological Sciences
Anagawa 4-9-1, Inage, Chiba 263-8555, Japan
Email: kmita@nias.affrc.go.jp
method:uni-directional, sequence direction:sequenced
                                                                                                                                                                                                                                                                                                                                                                                    Contact: Daniel K. Howe
Sarcocystis neurona EST project
Washington University School of Med:
4444 Forest Park Parkway, Box 8501,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genome Research Group
                                                                                                                                                                                                                                                                          Email: est@watson.wustl.edu
Contact Daniel K. Howe (dkhowe2@pop.uky.edu)
information relating to organism, libraries,
Seq primer: -40RP from Gibco
                                                                                                                                                                                                                                                                                                                                                  Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sarcocystidae; Sarcocystis.
1 (bases 1 to 518)
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Location/Qualifiers
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/clone lib="cSn 1 S neurona invitro merozoite cDNA" /note="Vector: pBluescript SK.; Site_1: EcoR; Site_2: Yho1; The library was constructed by Dan Howe, University of Kentucky. cDNAs were synthesized from poly(A)+ RNA by oligo d(T) priming and directionally cloned into the Uni-ZAP XR lambda vector. The library was mass excised
                                                                                                                               /db_xref="taxon:42890"
/dev_stage="==
                                                                                                                                                                                      /mo1
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/mol_type="mRNA"
/db_xref="taxon:7091"
/clone="epV32344"
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/dev_stage="5th instar larva
/clone_lib="epV3"
                                                                                                        dev_stage="merozoite"
'lab_host="DH10B"
                                                                                                                                                               mol_type="mRNA"
strain="Sn3"
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AV699251/c
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Matches 29
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AV699251 GKI
AV699251 GKI
AV699251
AV699251.1
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T7766 MVAT4 bloodstream
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Majiwa PAO
Molecular Biology Unit
International Livestock Research Institute
P.O. Box 30709, Nairobi, Kenya
Tel: 254-2 630743
Fax: 254-2 631499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Djikeng,A., Donelson,J.E. and Majiwa,P.A.O. Generation of expressed sequence tags as physical landmarks genome of Trypanosoma brucei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Trypanosoma brucei rhodesiense
                                                                                                                                                                                                                                                                                                                                                                                                                          Email: p.majiwa@cgnet.com
Seq primer: T3 primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
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                                                                                                                                                                                                                         /clone lib="MVAT4 bloodstream form of serodeme WRATatl.1"
/clone | The "MVAT4 bloodstream form of serodeme WRATatl.1"
/note="Vector: Lambda ZAP II (Stratagene); Site_1: EcorI;
Site_2: XhoI; The mRNA was purified from a cloned population of bloodstream trypanosomes reexpressing the MVAT4 metacyclic variant surface glycoprotein (VSG). A unidirectional oligo dT-primed EcoRI/XhoI cDNA library wan constructed in lambda ZAP II (Stratagene)."

88 c 118 g 157 t
                            GKD Homo sapiens
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                                                                                                                                                                                                                                                                                                                                            /sub_species="rhodesiense"
/db_xref="taxon:31286"
                                                                                                                                                                                                                                                                                                                                                                        /mol
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Query Match
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1 (bases 1 to 524)

Xu,X., Huang,J., Xu,Z., Qian,B., Zhu,Z., Yan,Q., Cai,T., Zhang,X., Xiao,H., Qu,J., Liu,F., Huang,Q., Cheng,Z., Lii,N., Du,J., Hu,W., Shen,K., Lu,G., Fu,G., Zhong,M., Xu,S., Gu,W., Hung,W., Zhao,X., Hu,G., Gu,J., Chen,Z. and Han,Z.

Insight into hepatocellular carcinogenesia at transcriptome level by comparing gene expression profiles of hepatocellular carcinoma with those of corresponding noncancerous liver proc. Natl. Acad. Sci. U.S.A. 98 (26), 15089-15094 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                  BP126517
BP126517 psV3 Bombyx mori cDNA clone psV30300, mRN
BP126517
                                                         Genome Research Group
National Institute of Agrobiological
Anagawa 4-9-1, Inage, Chiba 263-8555,
Email: kmita@nias.affrc.go.jp
                                                                                                                                                                                                                             Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia;
Bombycoidea; Bombycidae; Bombyx.
1 (bases 1 to 525)
                                                                                                                                                                                                                                                                                                                 Bombyx mori (domestic silkworm)
Bombyx mori
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Homo sapiens (human)
                   method:uni-directional, sequence (5' -> 3').
                                                                                                                                                                                 Mita,K., Morimyo,M., Shimada,T.,
Bombyx mori cDNA (Mita,K. 2003)
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EST.
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Chinese National Human
                                                                                                                                                Contact: Mita K
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tel: 86-21-50801919(ex.45)
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201203, P. R. China
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lone is available at CHGC in
Location/Qualifiers
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/db_xref="taxon:9606"
/clone="GKDABH11"
Location/Qualifiers
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/note="Vector: pBluescript sk(-);
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/dev_stage="Adult"
/lab_host="SOLR"
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                                       direction: sequenced
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REFERENCE
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BP123416
BP123416
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BP123680
BP123680.1
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          Bombyx mori
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Genome Research Group
National Institute of Agrobiological Sciences
Anagawa 4-9-1, Inage, Chiba 263-8555, Japan
Email: kmita@nias.affrc.go.jp
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Bombycoidea; Bombycidae; Bombyx.
1 (bases 1 to 528)
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Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
                                                   BP123416.1
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(5' -> 3').
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unpublished
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/db_xref="taxon:7091"
/clone="psV30300"
/tissue_type="posterior silkgland"
/dev_stage="th instar larva day 3"
/clone_lib="psV3"
78 c 74 g 177 t 20 oth
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                                                                           ерVЗ
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                                                                                                                                                                                                                                                                           /tissue_type="epidermis"
/dev_stage="5th instar larva day
/clone_lib="epV3"
/llT c 128 g 124 t
                                                                                                                                                                                                                                                                                                                               /organism="Bombyx mori"
/mol_type="mRNA"
/db_xref="taxon:7091"
/clone="epV31360"
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                                                   GI:29556458
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                         (domestic silkworm)
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Pred. No.
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RESULT 46
AI295021
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AUTHORS
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AUTHORS
TITLE
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(bases 1 to 577)
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Anagawa 4-9-1, Inage, Chiba 263-8555, Japan
Email: kmita@nias.affrc.go.jp
method:uni-directional, sequence direction:sequenced from
(5' -> 3')
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1 (bases 1 to 544)
Mita,K., Morimyo,M., Shimada,T., Okanc Bombyx mori cDNA (Mita,K. 2003)
                                                                                                                                                                                                   Fax: 510 486 6798
Email: http://www.fruitfly.org/EST,
Plate: 85 row: C column: 9
                                                                                                                                                                                                                                                                                                                                              Harvey,D., Brokstein,P., Hong,L.
Lewis,S. and Rubin,G.M.
BDGP/HHMI Drosophila EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AI295021.1
EST.
                                                                                                                                                                                                                                                       Lawrence Berkeley National Lab
One Cyclotron Rd, Berkeley, CA 94720,
                                                                                                                                                                                                                                                                                                              Contact: Stapleton, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Drosophila melanogaster (fruit fly)
Drosophila melanogaster
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unpublished
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                                                                                                                                                                                  quality sequence stop: 511.
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                  /sex="male and female"
/dev_stage="larvae-pupae"
/lab_host="DH5-alpha"
                                                                                          organism="Drosophila melanogaster"
|mol_type="mRNA"
|db_xref="taxon:7227"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /tissue_type="epidermis"
/dev_stage="5th instar larva
/clone_lib="epV3"
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/db_xref="taxon:7091"
clone_lib="LP Drosophila melanogaster
                                                                                                                                                             ocation/Qualifiers
                                                                         clone="LP08533"
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                                                                                                                                                                                                                       est@fruitfly.berkeley.edu
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     larval-early pupal
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BASE COUNT
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AUTHORS
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AW953985
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KEYWORDS
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Best Local Similarity
Matches 29; Conserv
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EST.
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                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: John Quackenbush
The Institute for Genomic Research
9712 Medical Center Dr., Rockville,
Tel: 301 838 3528
Fax: 301 838 0208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                        mRNA
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                                                                                                   7021-08 Mouse
                                                                                                                                                                                                                                                                                                                                                                            Seq primer: Reverse.
Location/Qualifiers
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                                       Mus musculus (house mouse)
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56
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                                                                                                                                                                                                                                                                                                                           /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                        /clone_lib="MAGE resequences, MAGC"
/note="Vector: pBluescriptSKm"
81 c 103 g 196 t
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                                                                                                                 EST 30-OCT-2002
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                                                                                                    musculus
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                                                                                                                                                                                                                                                                                                                                       Shoemaker, R., Keim, P., Vodkin, L., Erpelding, J., Coryell, V., Khanna, A., Bolla, B., Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A1960322 604 bp mRNA linear EST 30-NOV-2001 608160329 mRNA Linear EST 30-NOV-2001 6081603 y1 Gm-c1018 Glycine max cDNA clone GENOME SYSTEMS CLONE ID: Gm-c1018-1336 5' Bimilar to SW:CB12 LYCES P10708 CHLOROPHYLL A-B BINDING PROTEIN OF LHCI TYPE II PRECURSOR ;, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Department of Biochemistry and Molecular Biology University of Texas M.D. Anderson Cancer Center Box 117, 1515 Holcombe Blvd., Houston, TX 77030, Tel: 713 792 3646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 (bases 1 to 600)
Mu,X., Zhao,S., Pershad,R., Hsieh,T.-F., Scarpa,A., Wang,S.W.,
White,R.A., Beremand,P.D., Thomas,T.L., Gan,L. and Klein,W.H.
Gene expression in the developing mouse retina by EST sequencing
and microarray analysis
Email: est@watson.wustl.edu
Possible reversed clone: similarity on wrong strand This clone
Possible through: ResGen, Invitrogen Corp. 2130 South Memorial
Parkway Huntsville, AL 35801 For further information call: (800)
-533-4363 or contact via email: ccu@resgen.com
Insert Length: 2328 Std Error: 0.00
High quality sequence stop: 389.
Location/Qualifiers
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Glycine max (soybean)
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                                                                                                                                                                                       Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                 4444 Forest Park Parkway, Box 8501,
                                                                                                                                                                                                                                                                                                                    Unpublished
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790 0329.
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/mol_type="mRNA"
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/dev_stage="embryonic day 14.5 post-fertilization"
/clone_lib="Mouse_El4.5 retina_lambda_ZAP_II_Library"
121 c 93 g 212 t 5 others
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Beck, C.,
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JOURNAL COMMENT
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Query Match 2.2%; Score 29; DB 10; Best Local Similarity 100.0%; Pred. No. 0; Matches 29; Conservative 0; Mismatches .0
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                                                                                                                                                                                                                                                                                                                                                                             Unpublished
Contact: John Quackenbush
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 3528
Fax: 301 838 0208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 617)

Hegde, P., Qi, R., Abernathy, K., Dharap, S., Gaspard, R., Gay, C., Holt J.E., Saeed, A.I., Sharov, V., Lee, N.H., Yeatman, T.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AW949436 AW949436 MAGE resequences, MAGA Homo sapiens cDNA, AW949436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Quackenbush, J. Assessment of gene expression patterns in a model of colon tumor metastasis using a 19,200 element cDNA microarray
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                                                                                                                                                                                                                                                                                                                                                                Email: johng@tigr.org
                                                                                                                                                                                                                                                                                                                 primer: Reverse.
                                                                                                                          175
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /lab host="MIND: (Sibco BRL)"
/clone lib="Gm-c1018"
/clone lib="Gm-c1018"
/note="Vector: pBluescript II XR; Site 1: EcoRI; Site 2:
/note="Vector: pBluescript II XR; Site 1: EcoRI; Site 2:
/note="Vector: pBluescript II XR; Site 1: EcoRI; Site 2:
/note="Vector: pBluescript II XR isolated from mRNA isolated from mRNA isolated from mRNA isolated from mRNA isolated from pBluescript II XR ibrary construction kit. Complementary DNA was synthesized from mRNA using a primer consisting of a poly (dT) sequence with a XhoI restriction site. EcoRI adapters were ligated to the blunt-ended cDNA fragments followed by XhoI digestion. The cDNA fragments were directionally cloned into the EcoRI-XhoI restriction site of the pBluescript vector. The ligated cDNA fragments were transformed into DH10B host cells (Gibco BRL). This library was constructed by Dr. Randy Shoemaker and Dr. John Erpelding."

73 a 144 c 113 g 171 t 3 others
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                                                                                                              /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone_lib="MAGE resequences, MAGA"
/note="Vector: pBluescriptSKm"
129 c 87 g 226 t
                                                                                                                                                                                                                                                                    Location/Qualifiers
1. .617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tissue_type="leaves of greenhouse dev_stage="2-3 weeks old"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  organism="Glycine max"
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ib_xref="taxon:3847"

clone="GENOME_SYSTEMS_CLONE_ID: Gm-c1018-1336"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 29; DB 9; Pred. No. 0;
.0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 604;
                                             Length 617;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      grown plants"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mRNA sequence.
0;
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  Gaps
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  0
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KEYWORDS ERSION

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513 AAGTAAAAAAAAAAAAAAAAACTCGAG 541
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